

Design System's color system



Cecilia Fernández

Color system

The screenshot displays a design tool interface with a code editor on the left and a visual token palette on the right. The code editor shows the following configuration:

```
1 tokens TravelAgency {  
2  
3 #colors  
4 {  
5 #region Application  
6 primary: #73D94F;  
7 secondary: #015547;  
8 primary--highlighted: #A7E491;  
9  
10 #endregion  
11  
12 #region Neutral  
13 gray00: #FFFFFF;  
14 gray200: #C1C1C1;  
15 gray600: #616161;  
16 opacity: #19181933;  
17 #endregion  
18 }  
19  
20  
21 #fonts  
22 {  
23 primary: Heebo;  
24 secondary: Rubik;  
25 additional: Graphik;  
26 }  
27 }
```

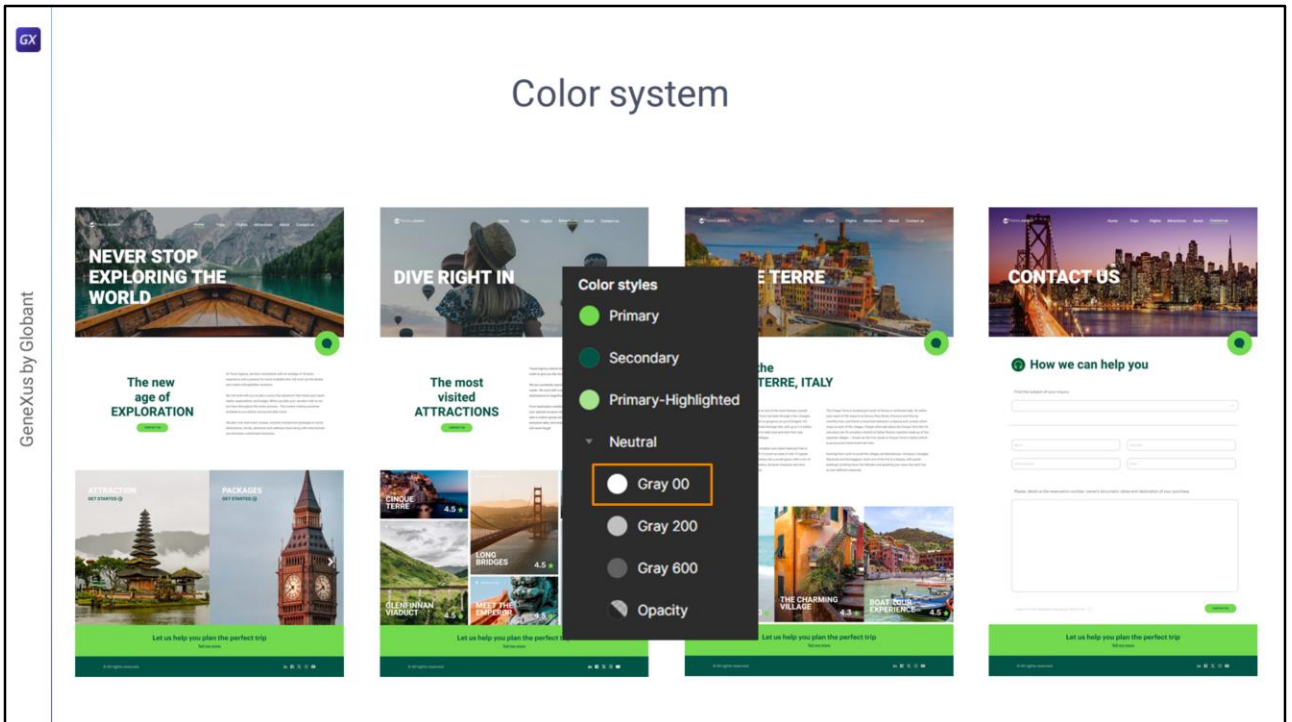
The visual token palette on the right is titled 'COLORS' and is divided into two sections: 'APPLICATION' and 'NEUTRAL'. Each section contains a table of color tokens with their names and values.

NAME	COLOR VALUE
primary	#73D94F
secondary	#015547
primary--highlighted	#A7E491
+ Add new token	

NAME	COLOR VALUE
gray00	#FFFFFF
gray200	#C1C1C1
gray600	#616161
opacity	#19181933
+ Add new token	

Below the 'COLORS' section, there is a 'FONTS' section which is currently empty.

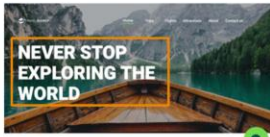
In the previous video, we had completed the color tokens of our DSO from what we had taken from the project in Figma, remember?



However, the color system expressed in this way is very basic: at the semantic level it only expresses the **primary** color of the application and the **secondary** color, but it does not express things such as what color to apply for the background, what color to apply for texts that are titles on backgrounds, for common texts on backgrounds, for texts on images, and so on.

The color system could represent the function of colors in the application in a much more semantic way. For example, this white, Gray00...

Color system


 Gray 00


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DIVE RIGHT IN

The most
visited
ATTRACTIONS



CINQUE TERRE

Visiting the
CINQUE TERRE, ITALY

surface

title__on-image



Let us help you plan the perfect trip

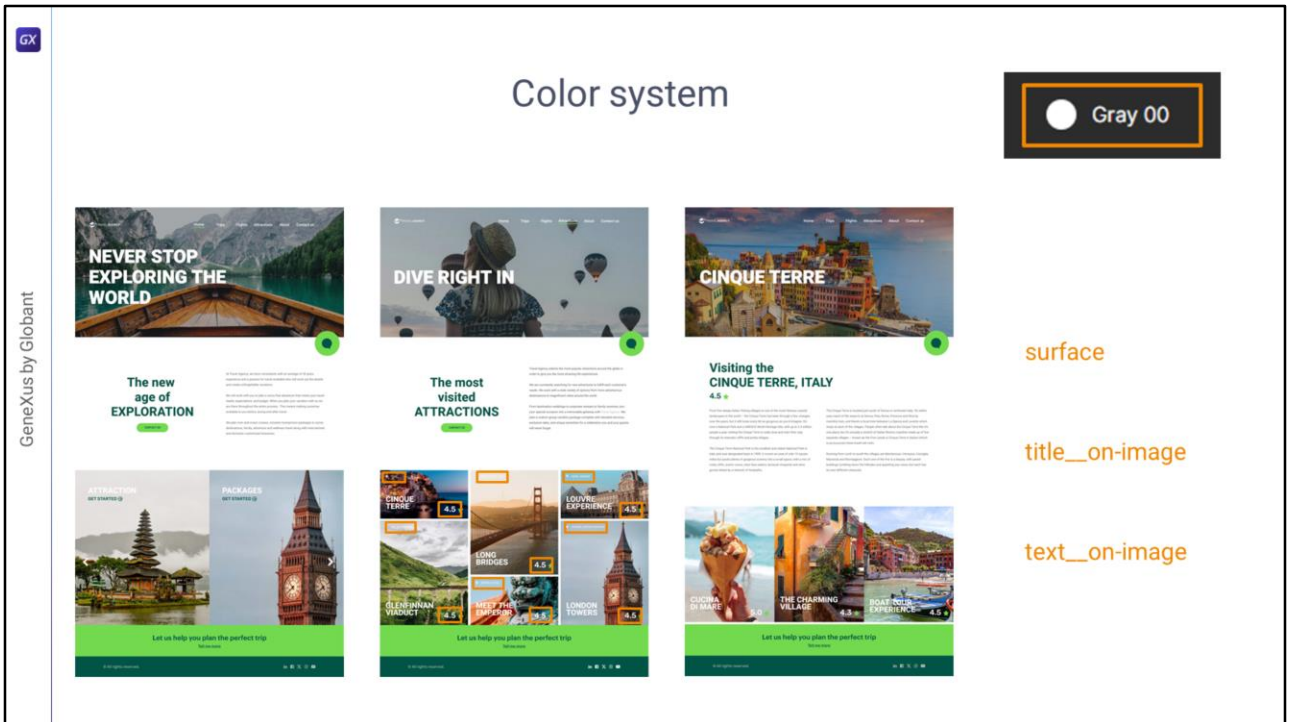


Let us help you plan the perfect trip



Let us help you plan the perfect trip

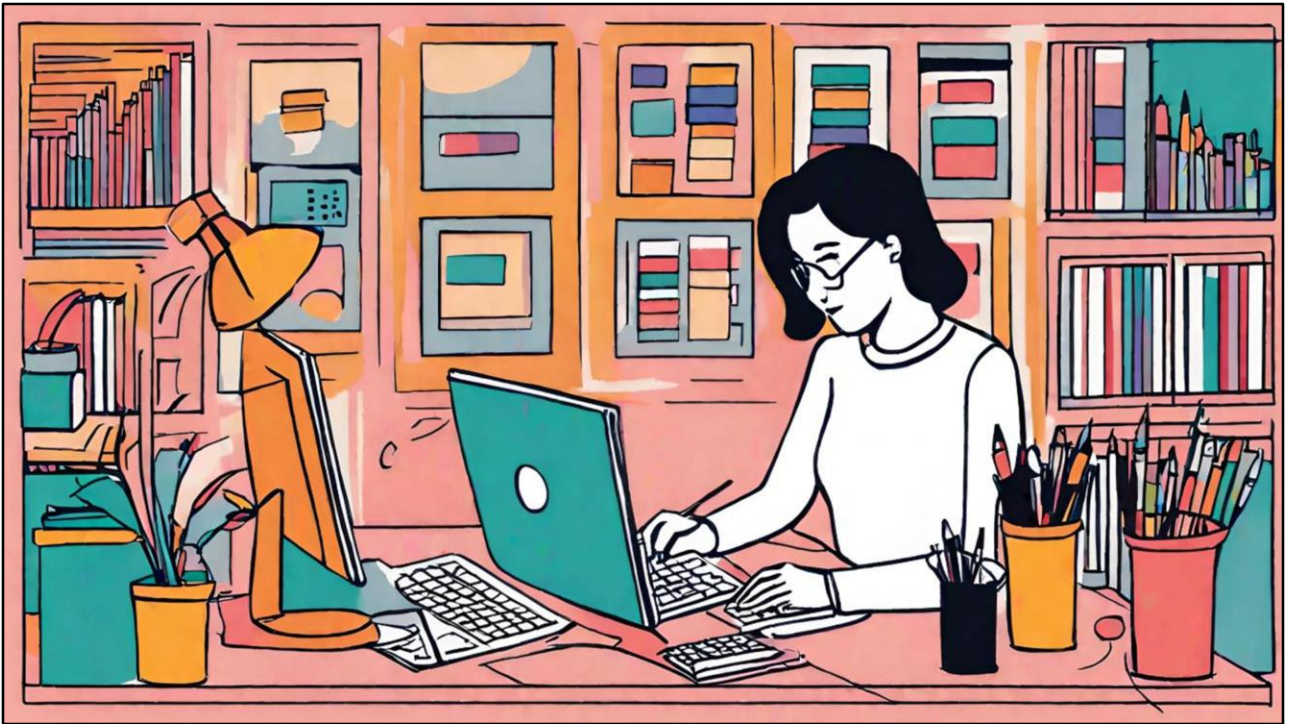
...as the color of a **title on an image**, both of Hero and of Cards...



...as well as for other texts on images, such as those on these Attractions cards. That is, in at least three different functions.

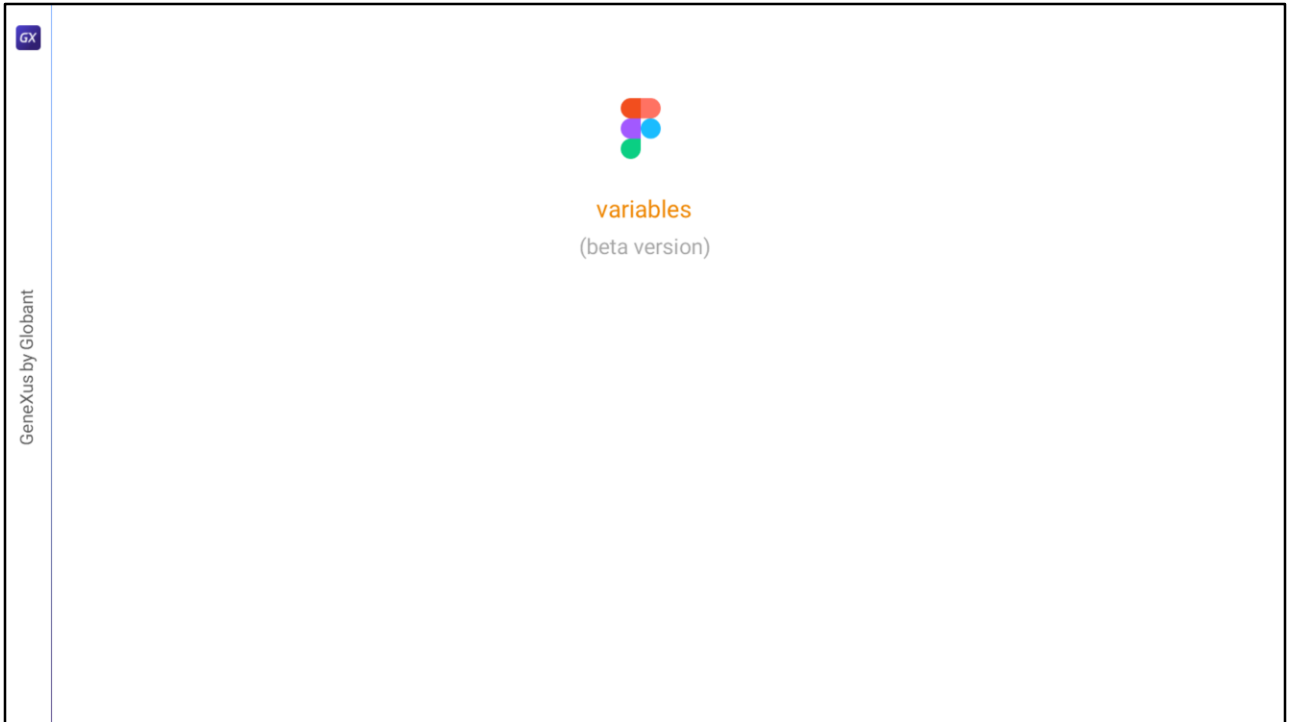
If we give a name to these functions: **surface** color, color of **titles** on images, and color of **texts** on images, we are building a color system that is truly more systemic, and of course, more semantic.

It will tell a lot more and in a better way about the application's design. It will then be very easy to change, for example, the background color of the screens. Or the color of the titles on images, or of the texts on images.

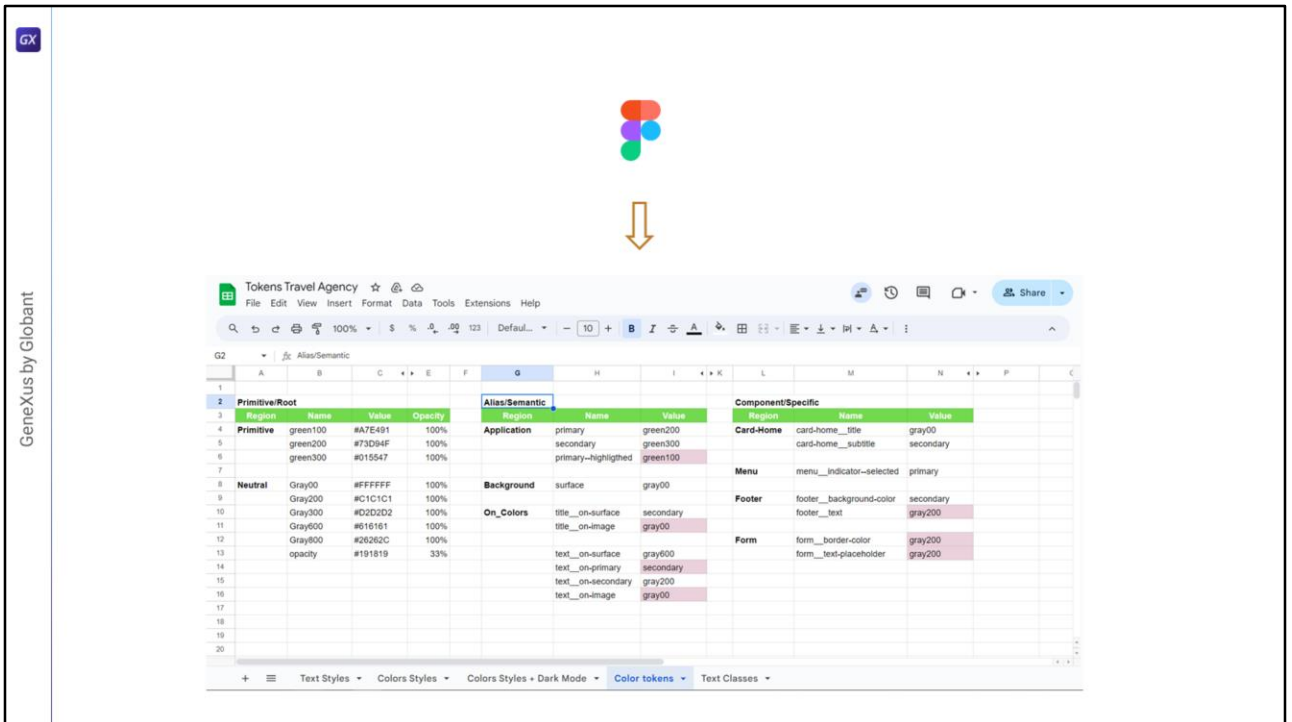


The task of building a good color **system**, that is, of identifying and abstracting its functions, is not so easy, but it is a very important task, which, if it is delayed, will degrade the system in the future. Therefore, it is advisable to focus on solving it as soon as possible, and then everything will go smoothly. At most, minor adjustments will have to be made.

In general, this task is left to the designer, who already works more or less consciously with these abstractions.



If your design tool does not provide that level of expressiveness (this is the case of Figma, which has that option in beta)....



...you can send the frontend developer the system modeling in a spreadsheet, for example.

This doesn't mean that we, frontend developers, even if we are not the ones building the model, have to understand it. Of course, if we don't have a designer, or the designer can't handle the systemization, we will have to do it ourselves.

So let's analyze this model that Chechu put together for me (and that I have been completing) for the color system of our application.

First, we can see that it is designed in 3 levels of abstraction. The most basic, this one, corresponds to the color palette, where we simply give a name to each color of the palette and not much else.

The second level is essential, it is built on the first one, and it is essential because it already corresponds to the global semantics of the colors in the application. It is going to model, then, the color system in the most general way possible.

With the color styles that Chechu had created in Figma so far, we have a very basic combination of these two levels.

Later there may or may not be a third level to specify the special cases that cannot be modeled with the generality given by the second level. That is to say, the second level is thought of as cross-cutting to the entire application, while the third level is much more specific to a particular component or part of the design.

Let's analyze all this a little to understand it. Here we see tokens for the primary color, for the secondary color, for the highlighted primary color (we had already incorporated them before), and we are adding a token for the background color of the screens: this one. Then we see that tokens are being added to represent the colors of the elements that will be placed **on** background colors.

Let's see examples to understand this.

GeneXus by Globant

Color system

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At Travel Agency, we have consultants with an average of 20 years experience and a passion for travel available who will work out the details and create unforgettable vacations.

We will work with you to plan a worry free adventure that meets your travel needs, expectations and budget. When you plan your vacation with us we are there throughout the entire process. This means making ourselves available to you before, during and after travel.

We plan river and ocean cruises, romantic honeymoon packages to sunny destinations, family, adventure and wellness travel along with international and domestic customized itineraries.

This is because every element of a layout has a background color, the background-color, which may be transparent.

For example, these two texts have a transparent background color, but this button does not.

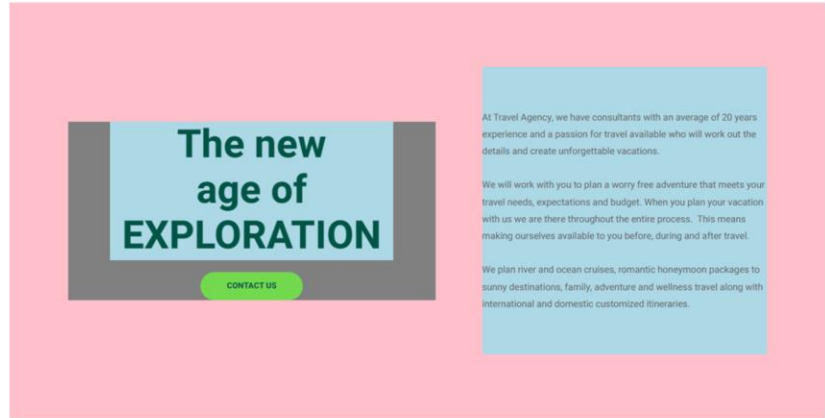
But these two controls are in turn inside another one – table or flex, it doesn't matter – which can also have a background color. Or, be transparent.

And this one and this one, in turn, are also inside a table or flex that may or may not have a background color.

Color system

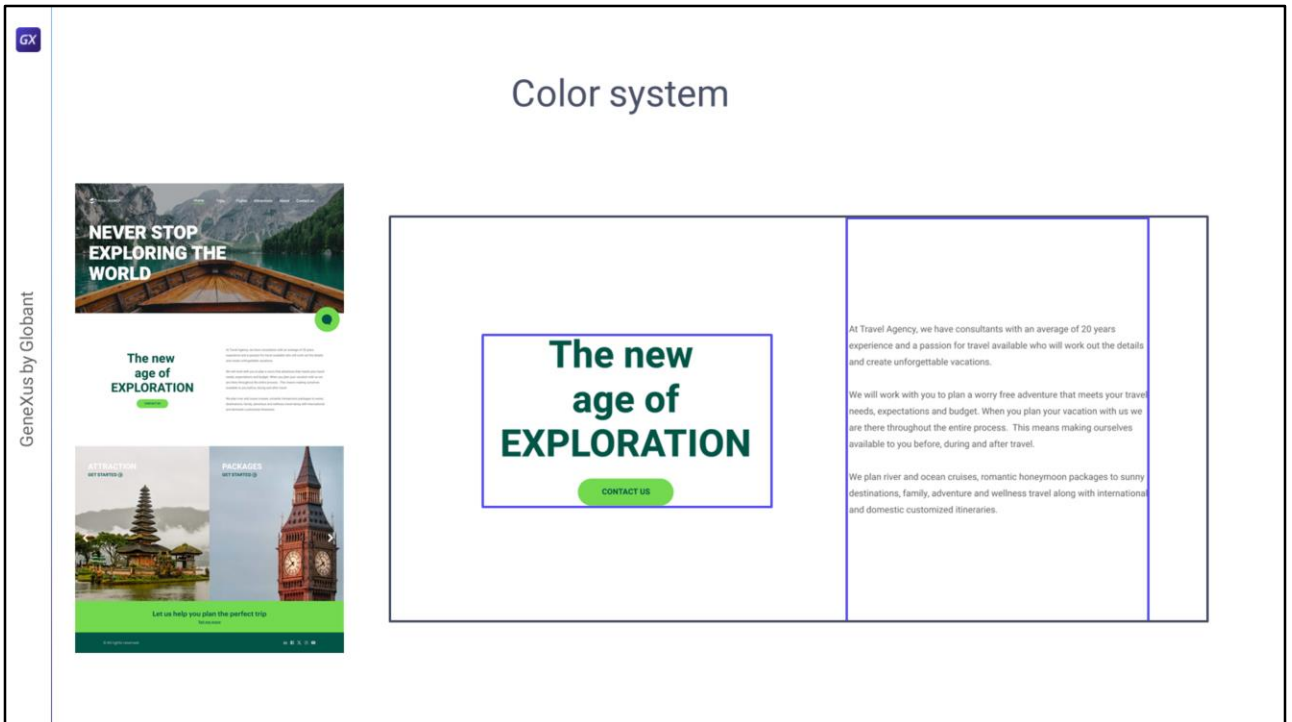


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For example, look what happens if I provide different background colors to several of these elements.

In short, in every layout there is a hierarchy of controls, some inside others, each one with a background color, which may (or may not) be transparent.

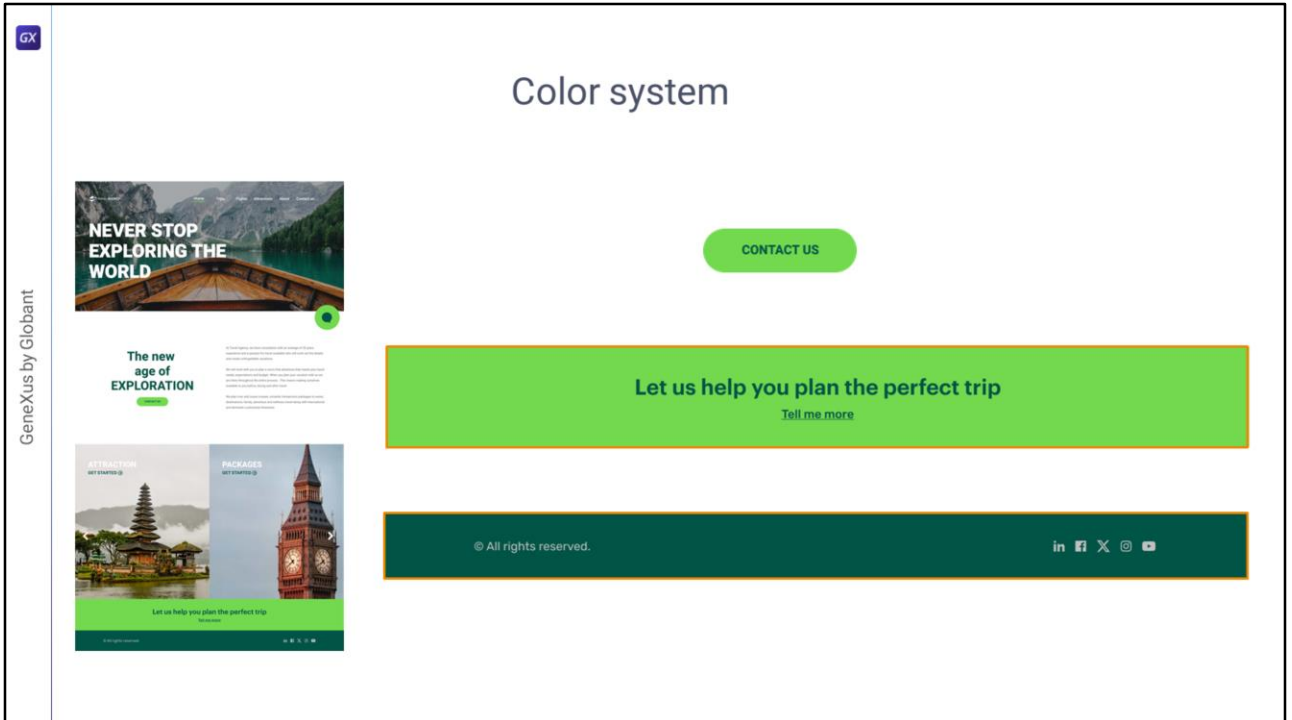


In the example of our design, the only background-color that is not transparent (actually, it is white) is that of the container. Well, except for the button, which has its light green background-color.

What I said a moment ago is not necessary either: the background-color of this table could also be transparent, if the one that contains it has a white background-color.

It is our case; do you remember that we had placed the background-color at the level of the Application class in the DSO, so that it was universally valid for all layouts? Well, if you don't remember, don't worry, that is not the point now.

What I want to pay attention to is the contrast required between the background and the foreground.

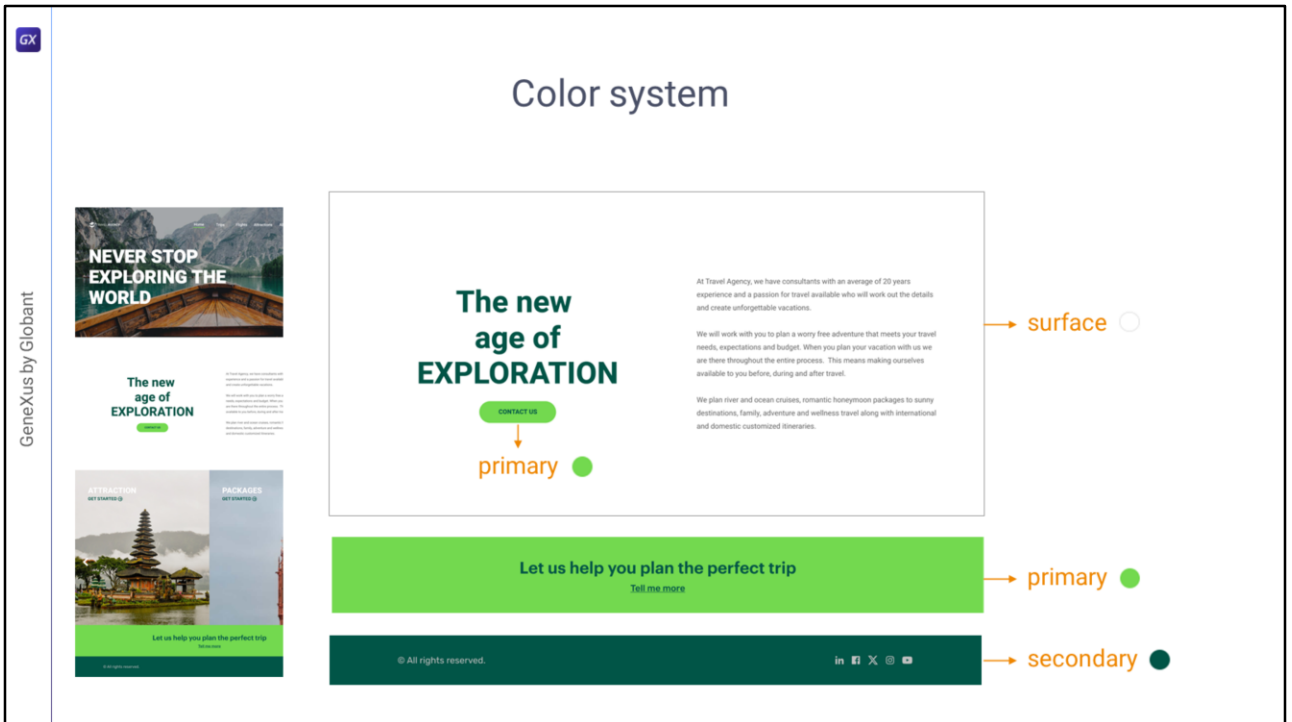


This one, for example, can be a table or a cell of a table, and this another one. And that table or cell has a background-color. In one case the light green, in the other the darker green.

The controls that are inside have a transparent background-color to be placed **on** that surface that is the background.

But they also have their own color; in these cases of texts they are the **color of the text**, which has to contrast against that **background surface**, and that is all the designer is interested in: to achieve a good contrast between the superimposed elements so that they can be displayed properly and are not confusing.

The button can also be thought of in this way, as having a background-color and the text of the button **contrasting on** it.



This one, which we will call **surface**, will correspond to the white color of the color palette.

This one, which we call **primary**, is a green color of the color palette (light green).

And this one, which we call **secondary**, corresponds to the other green.

For the button, we also have the **primary** background color.

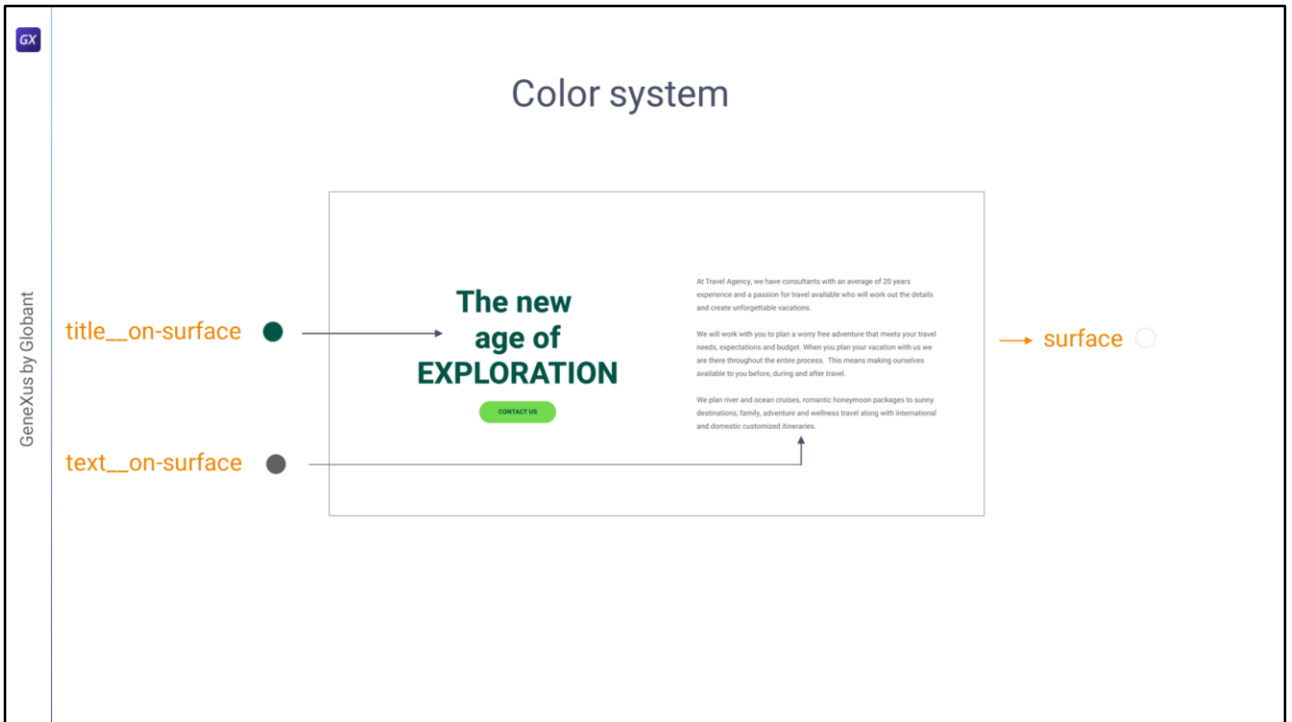


But, as we were saying, a good contrast between the colors placed **on** these **background colors** is essential to achieve a successful design.

If we look at the two elements that have a **primary background** (these two) we see that the texts that are placed **on** that **primary** color correspond to the same color.

Therefore, we can think of a token that specifies the color of the texts that are placed on a **primary** background. And that token is the one we call **text_on-primary**. (Note that I am already using the BEM naming convention to name that token).

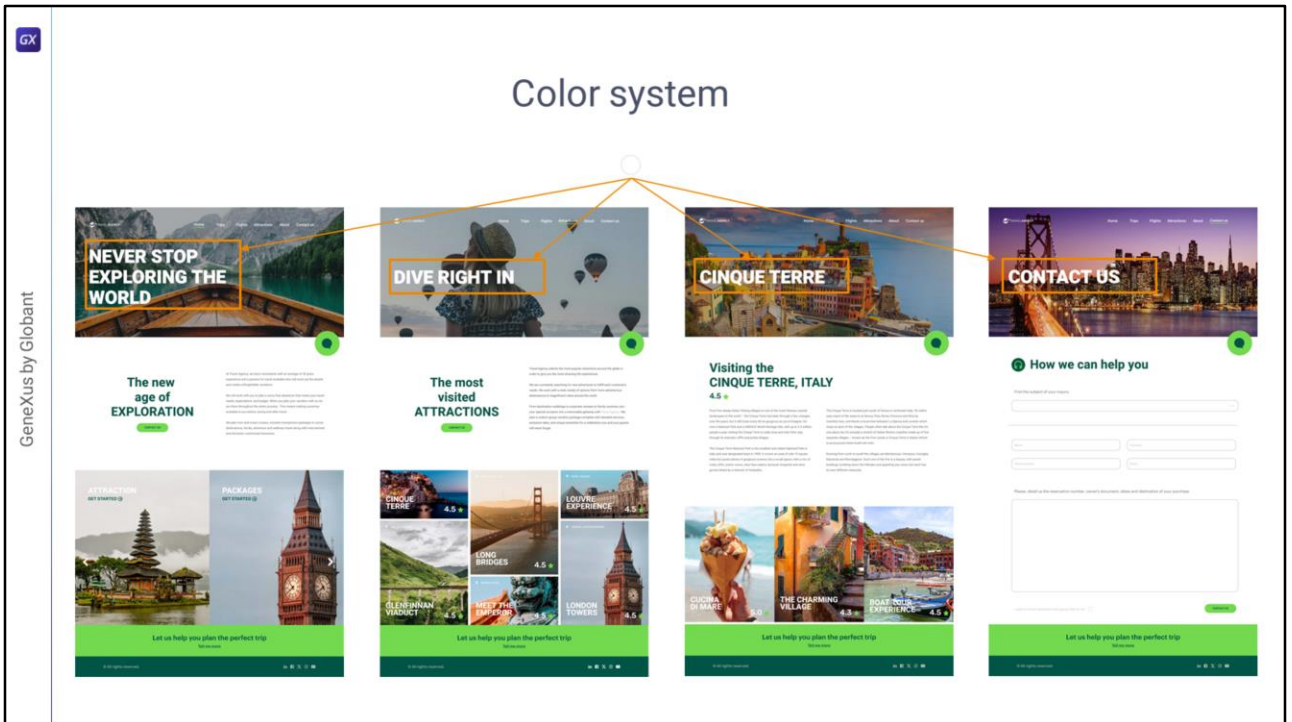
In this case, the value we will give to the token is that of another token, the **secondary** one, but, beyond that, it doesn't matter what value we give it, what matters is that we have just isolated, identified, a token that will perform this function: to be text placed **on** a **primary** surface.



And while we are here, we can also think about the colors of the texts that will be placed **on the surface**. We see two types of differentiated elements:

The **color of the title**, and the **color of a common text**. Here I'm not sure if it is clear that they are two different colors. But even if they were not, it is convenient to differentiate them because their functions are different; even if for the current design they were combined, which is not the case, because they are two different colors. But even if they were combined with the same value, it would still be good to separate them into two elements because they could change later and one could take a value and the other another value, as they correspond to different concepts.

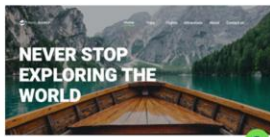
So we can give them names that stand for the two different concepts: **title__on-surface**, a **title** on the surface and a **text** on the surface.



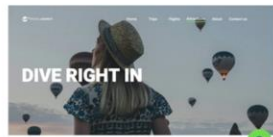
In addition, we can think that **images** also act as **backgrounds** when elements are superimposed on them. Both the Hero images in the page headers and the ones in all the carousels have texts superimposed on them.

Of what types? We have two cases: that of the **titles** on Hero images...

Color system



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The most visited ATTRACTIONS



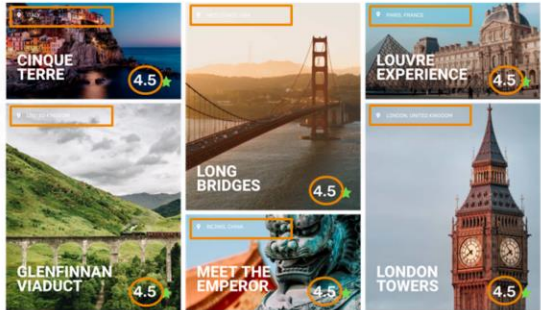
Visiting the CINQUE TERRE, ITALY



title__on-image

...and on the cards, on one hand. It is the same color in both cases, and surely the designer has thought of it as a **“title on image”** concept (so we can call this color concept **this way** and not separate it into two, at least initially).

Color system

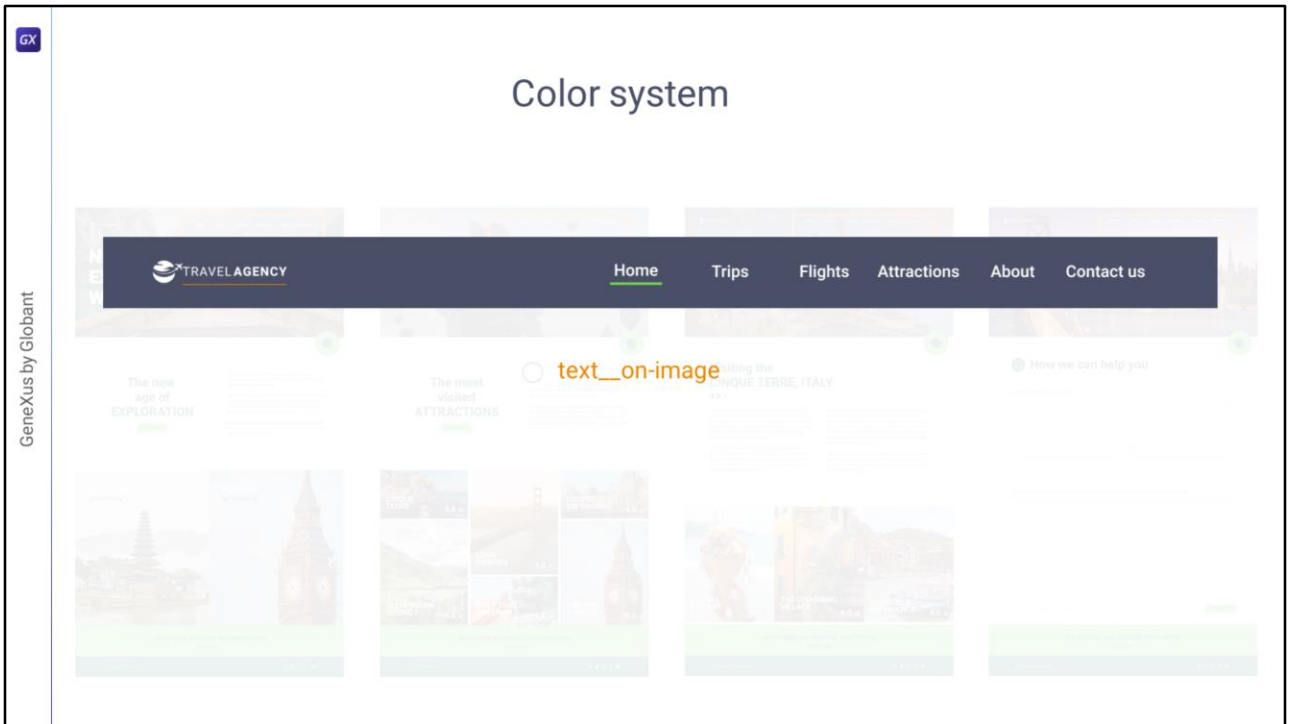


title_on-image



text_on-image

On the other hand, the second case that we can identify is the “**text** on image” concept, for all these other cases: those of the rating on these cards and these other ones, and also for the location of the tourist attraction.



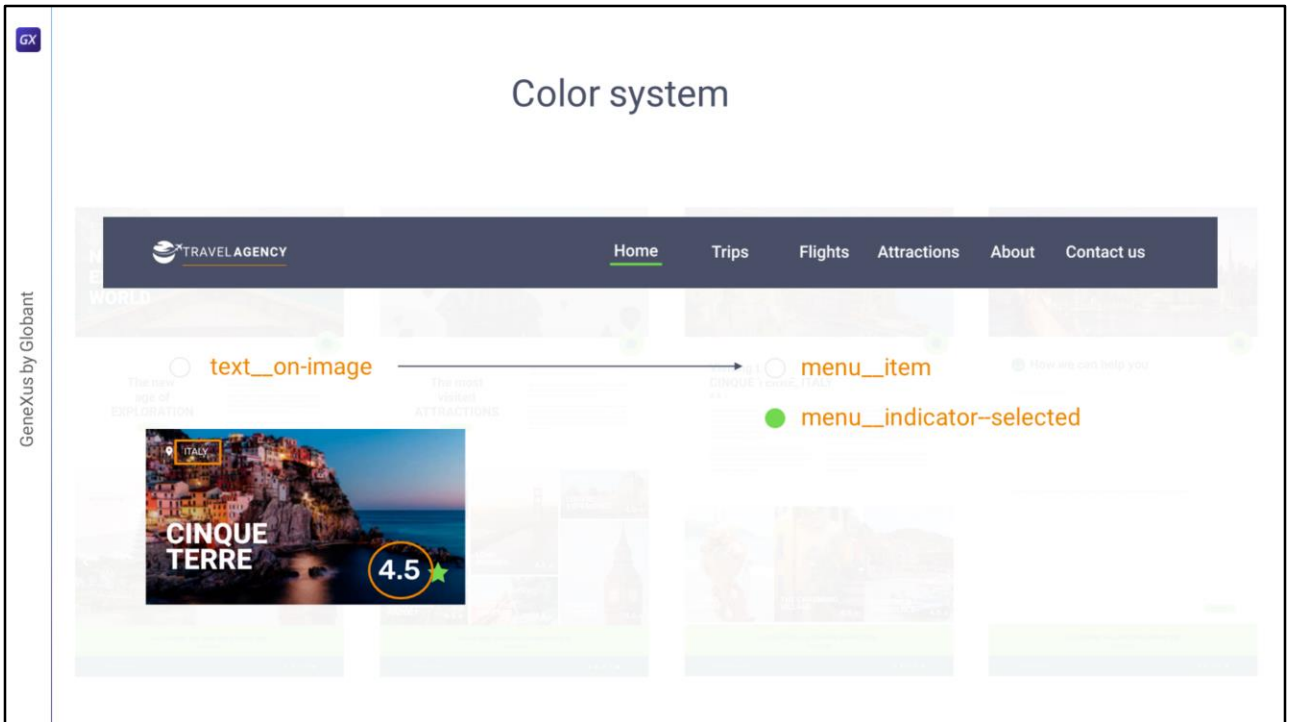
And what about the menu items and these two words in the logo? In principle we could use the same concept.

Color system

Primitive/Root				Alias/Semantic		
Region	Name	Value	Opacity	Region	Name	Value
Primitive	green100	#A7E491	100%	Application	primary	green200
	green200	#73D94F	100%		secondary	green300
	green300	#015547	100%		primary--highlighted	green100
Neutral	Gray00	#FFFFFF	100%	Background	surface	gray00
	Gray200	#C1C1C1	100%		On_Colors	title__on-surface
	Gray300	#D2D2D2	100%	title__on-image		gray00
	Gray600	#616161	100%	text__on-surface		gray600
	Gray800	#26262C	100%	text__on-primary		secondary
	opacity	#191819	33%	text__on-secondary	gray200	
				text__on-image	gray00	

Having analyzed all this, we already have the minimum semantic level.

Will we need to add a third – specific – level? And if so, how specific? Or have we already modeled the whole system with this?

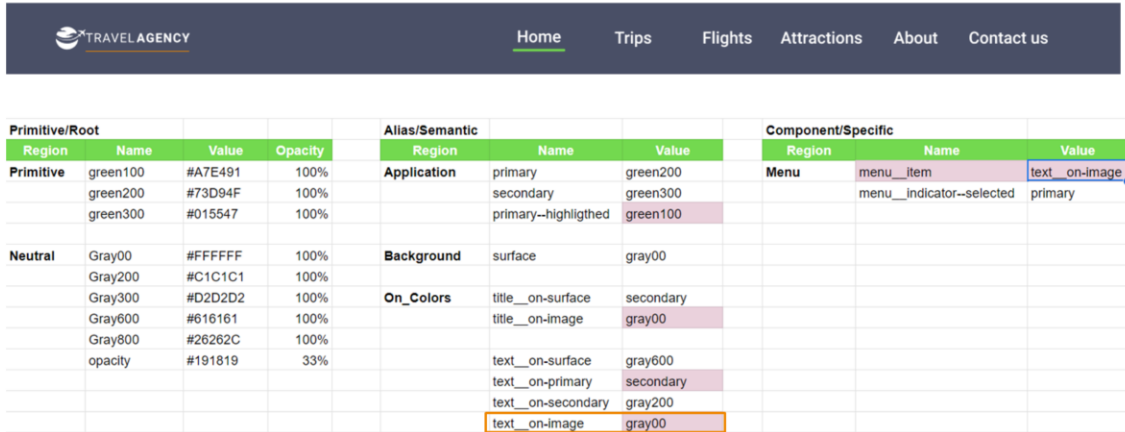


For example, as we said, in principle we could use for the menu items the same color as for any other common text that is placed on an image, like these other ones. That is, `text_on-image`.

But we could also think that the color of a menu item has such a specificity that may deserve to be assigned a color concept of its own. In this design we are implementing the menu to be always on the Hero image, but this decision could change later on. Perhaps we may want to give another color to the menu, so we will need it to be independent from the other uses of "text on image".

This will be a specific concept of the menu component. It should even add the color of the bar that will be displayed to indicate the selected option, as we see here, which takes this green color, the primary one.

Color system

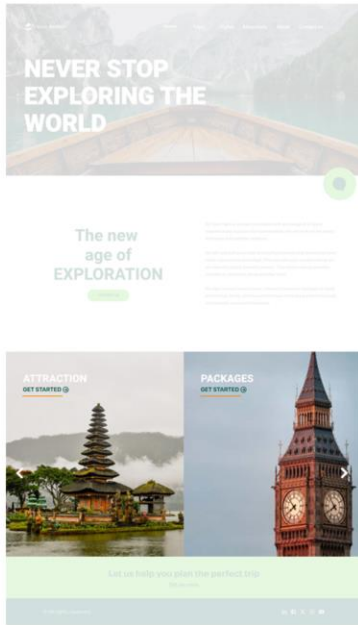


Primitive/Root				Alias/Semantic			Component/Specific		
Region	Name	Value	Opacity	Region	Name	Value	Region	Name	Value
Primitive	green100	#A7E491	100%	Application	primary	green200	Menu	menu_item	text_on-image
	green200	#73D94F	100%		secondary	green300		menu_indicator--selected	primary
	green300	#015547	100%		primary--highlighted	green100			
Neutral	Gray00	#FFFFFF	100%	Background	surface	gray00			
	Gray200	#C1C1C1	100%						
	Gray300	#D2D2D2	100%	On_Colors	title__on-surface	secondary			
	Gray600	#616161	100%		title__on-image	gray00			
	Gray800	#26262C	100%		text__on-surface	gray600			
	opacity	#191819	33%		text__on-primary	secondary			
					text__on-secondary	gray200			
			text__on-image	gray00					

Then we would add the third level, because, although these colors will only apply to one component and it wouldn't be so essential to isolate them as tokens, doing so improves the system's maintainability and consistency.

I marked the first one because, actually, I assigned the same value as that of the text__on-image token, which clearly indicates that in principle it would not be necessary that it is independent.

This is the type of decision that we have to make, aiming at a balance. For a small system like ours, in principle there is no disadvantage in this specialization, but as the system grows, the multiplication of particular cases clearly makes it more complex and degrades it. So, I suggest balance!



Color system

Alias/Semantic			Component/Specific		
Region	Name	Value	Region	Name	Value
Application	primary	green200	Menu	menu_item	text_on-image
	secondary	green300		menu_indicator--selected	primary
	primary--highlighted	green100			
Background	surface	gray00			
On_Colors	title__on-surface	secondary			
	title__on-image	gray00			
	text__on-surface	gray600			
	text__on-primary	secondary			
	text__on-secondary	gray200			
	text__on-image	gray00			

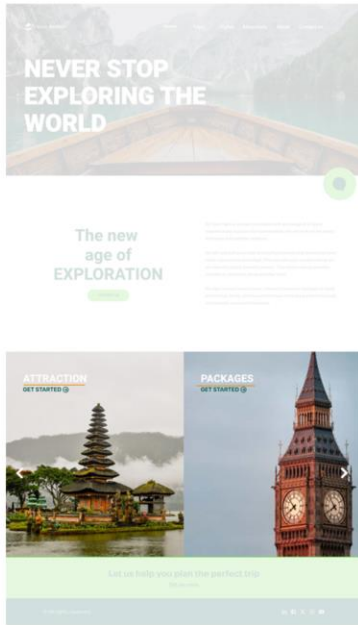
● text-alt__on-image

● card-home__subtitle

For example, we haven't modeled the color of this text. It is a text on an image, but not the white that we had for the other cases of text on an image.

So we could define a second, alternative, token for text on an image, at level 2, semantic. Or we could define it specifically as at the level of the component where we will find it, which I will name card-home. Since it acts as a subtitle in that component, I'll call it that.

I made this decision because the general token doesn't make much sense since it doesn't seem to be general at all, but to be completely specific to this case.



Color system

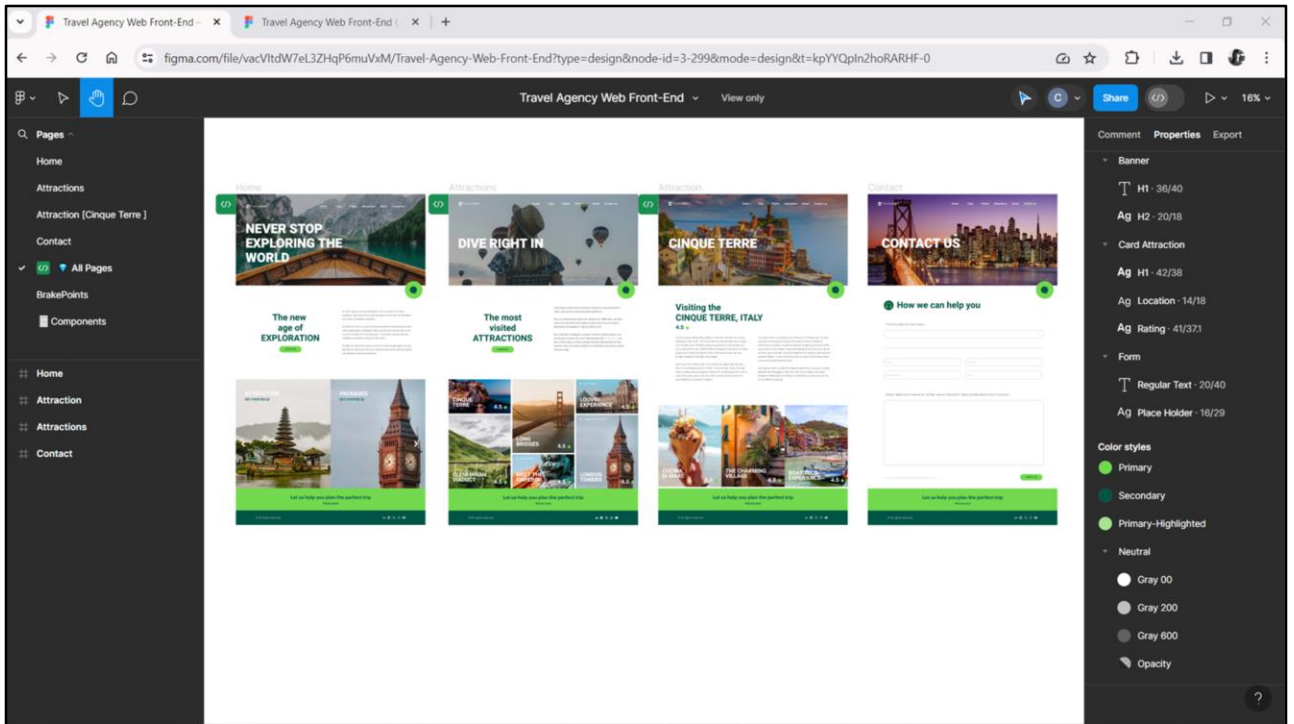
Alias/Semantic			Component/Specific		
Region	Name	Value	Region	Name	Value
Application	primary	green200	Menu	menu__item	text__on-image
	secondary	green300		menu__indicator--selected	primary
	primary--highlighted	green100	Card-Home	card-home__title	gray00
Background	surface	gray00		card-home__subtitle	secondary
On_Colors	title__on-surface	secondary			
	title__on-image	gray00			
	text__on-surface	gray600			
	text__on-primary	secondary			
	text__on-secondary	gray200			
	text__on-image	gray00			

● card-home__subtitle

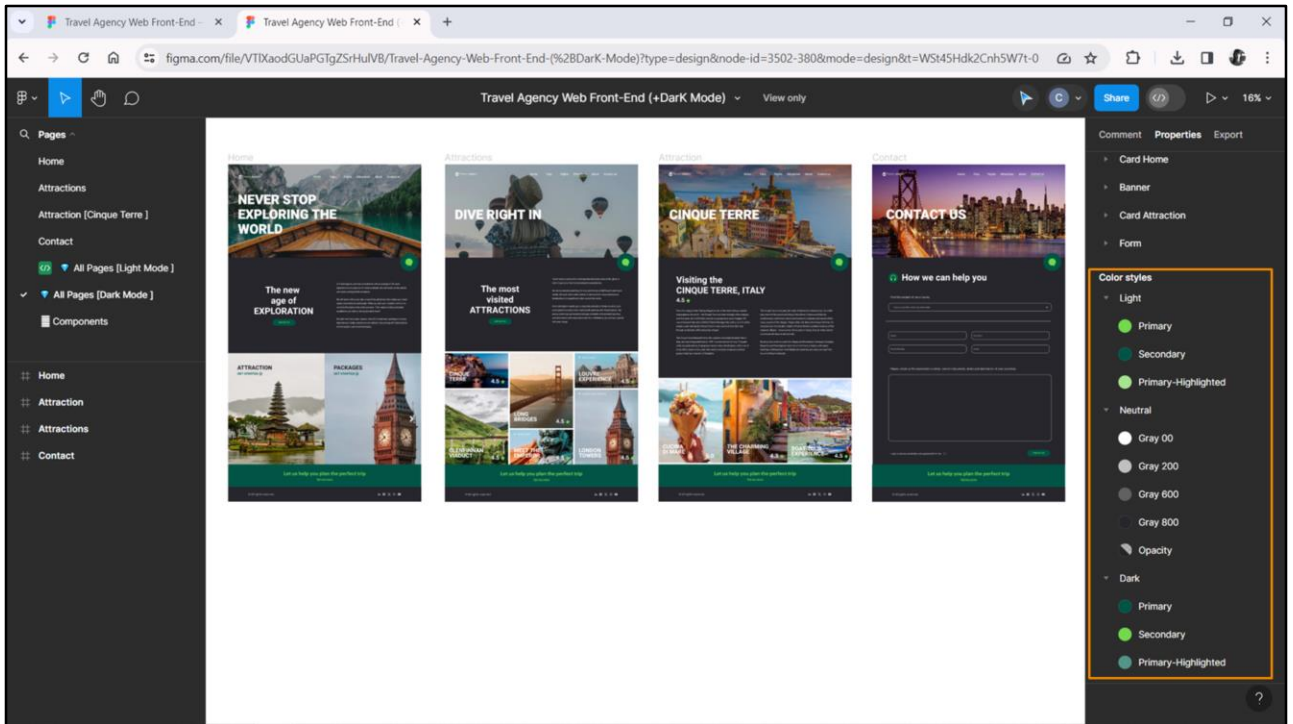
So I added it there, with the value of the secondary token.

You may rightly wonder why for this element I specified a token, `card-home__title`, if we had already seen that I could use the general one, `title__on-image`.

It might seem that since I had to define a specific one for the subtitle, then for consistency purposes it would be a good idea to define one for the title. However... it was because of a much stronger reason than that... and it has to do with something that we had not considered so far.



Which is this... This is the Light mode...



This is the Dark mode.

Chechu made another file, different from the one we were working with, where she added this mode.

If we click down here and select the properties, on the color styles that we had, now we can see those of the Dark mode.

Although this is Primary Light, in this other one Primary Dark is the secondary one. And the one that is secondary in Dark mode will be the primary one in Light mode.

Primitive/Root					Alias/Semantic				Component/Specific		
Region	Name	Light Value	Value Dark	Opacity	Region	Name	Light	Dark	Region	Name	Light
Primitive	green100	#A7E491	#54958A	100%	Application	primary	green200	green300	Menu	menu_item	text_on
	green200	#73D94F		100%		secondary	green300	green200		menu_indicator--selected	primary
	green300	#015547		100%		primary--highlighted	green100	gray100			
Neutral	Gray00	#FFFFFF		100%	Background	surface	gray00	gray800	Card-Home	card-home__title	gray00
	Gray200	#C1C1C1		100%						card-home__subtitle	secondary
	Gray300	#D2D2D2		100%	On_Colors	title__on-surface	secondary	gray00			
	Gray600	#616161		100%		title__on-image	gray00	gray00			
	Gray800	#26262C		100%		text__on-surface	gray600	gray00			
	opacity	#191819		33%		text__on-primary	secondary	secondary			
					text__on-secondary	gray200	primary?				
					text__on-image	gray00	gray00				

So in the spreadsheet, for each token I will have to specify another column for the value taken by the token for the Dark mode.

The one we had, which said Value (now I changed it to Light) corresponded to Light mode (which was the one we were working on). We have to make these associations: for each token specify what its value is going to be in Dark mode as well.

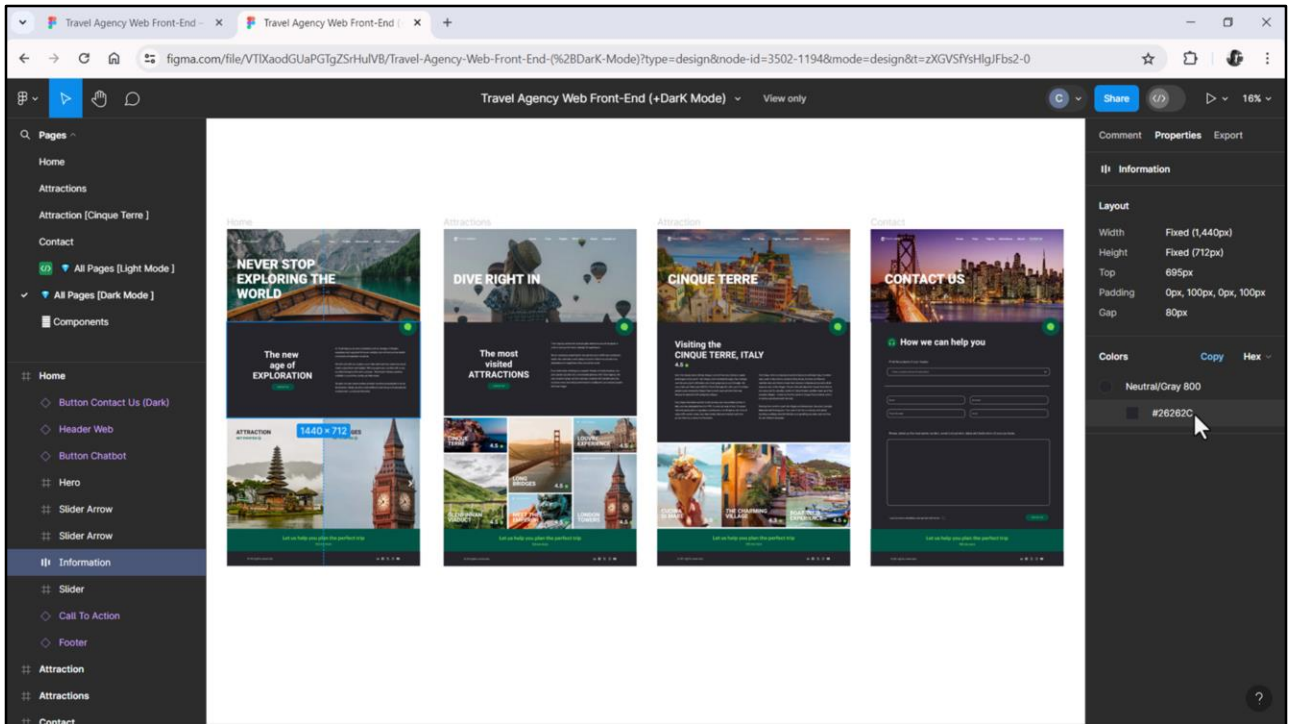
Light Value	Value Dark	Opacity	Alias/Semantic	Component/Specific
			Region	Name
#A7E491	#54958A	100%	Application	primary
#73D94F		100%		secondary
#015547		100%		primary--highlighted
			Background	surface
#FFFFFF		100%		title_on-surface
#C1C1C1		100%		title_on-image
#D2D2D2		100%	On_Colors	secondary
#616161		100%		secondary
#26262C		100%		gray00
#191819		33%		gray00
				gray600
				gray00
				secondary
				secondary
				gray200
				primary?
				gray00
				gray00

So why did I tell you this? Because if we come here... we would have to inspect all this now to see how the color varies according to the token. What I marked corresponds to when it is the same value in both modes.

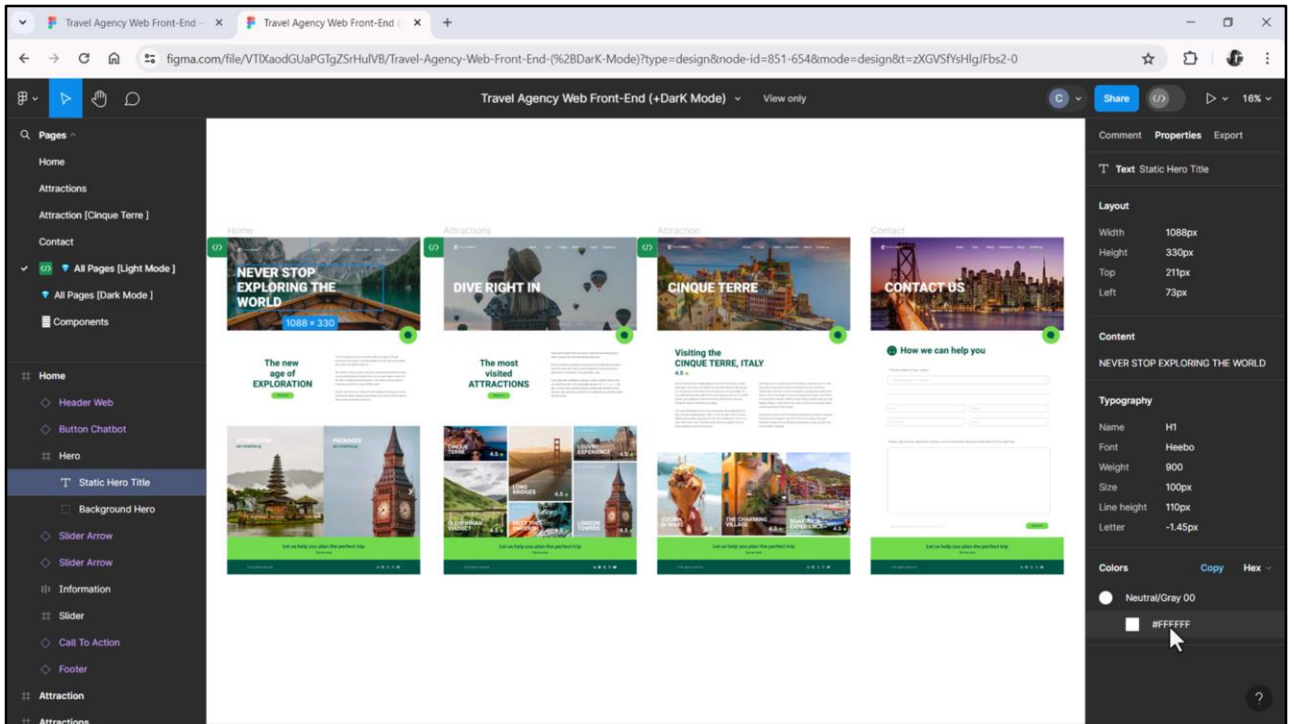
So what is not marked is what varies between one mode and the other.

Primitive/Root					Alias/Semantic				Component/Specific		
Region	Name	Light Value	Value Dark	Opacity	Region	Name	Light	Dark	Region	Name	Light
Primitive	green100	#A7E491	#54958A	100%	Application	primary	green200	green300	Menu	menu_item	text_on
	green200	#73D94F		100%		secondary	green300	green200		menu_indicator--selected	primary
	green300	#015547		100%		primary--highlighted	green100	green100			
Neutral	Gray00	#FFFFFF		100%	Background	surface	gray00	gray800	Card-Home	card-home_title	gray00
	Gray200	#C1C1C1		100%		On_Colors	title_on-surface	secondary		gray00	card-home_subtitle
	Gray300	#D2D2D2		100%	title_on-image		gray00	gray00			
	Gray600	#616161		100%	text_on-surface		gray600	gray00			
	Gray800	#26262C		100%	text_on-primary	secondary	secondary				
opacity	#191819		33%	text_on-secondary	gray200	primary?					
					text_on-image	gray00	gray00				

For example, let's start with the **surface**: while in Light mode it is this white, gray00, which we have here, for the Dark mode it will be this gray800.

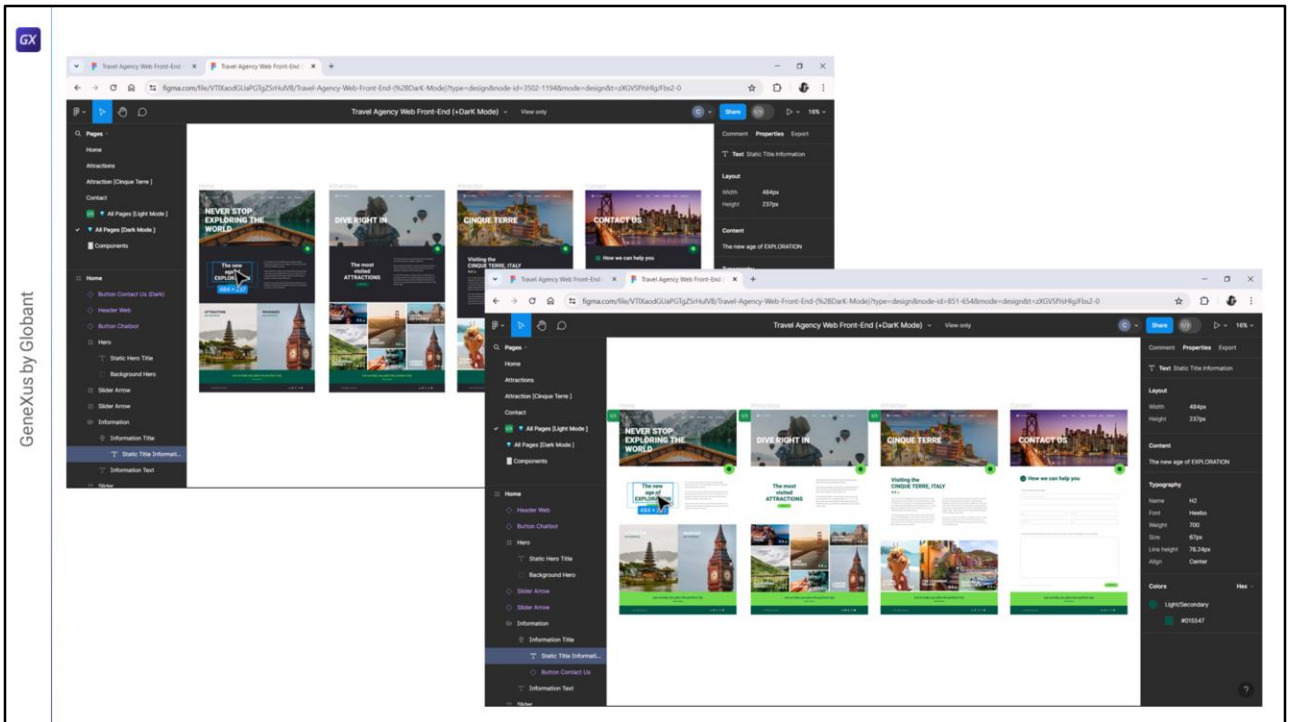


We can see it clearly by selecting this... and we see: gray800... for the Light mode we already knew that it was gray00.



As I was saying, not everything changes.

For example, the color of the title on an image that corresponds to our title__on-image token is gray00 for the Light version ...and for the Dark version as well. It is not modified.



GeneXus by Globant

Instead, let's see what happens with the title on a surface, title_on-surface. Here in Dark mode, we can see that it is a white, it is gray00, while in Light mode it was secondary.

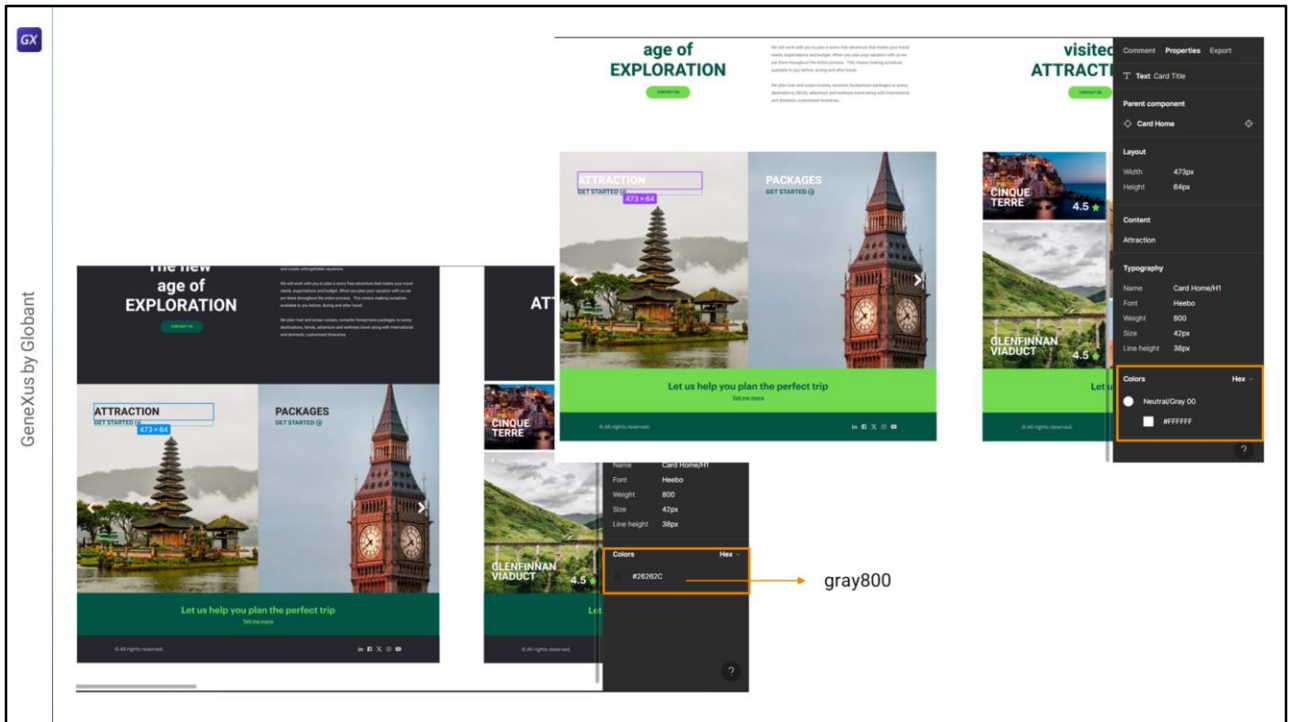
Primitive/Root					Alias/Semantic				Component/Specific		
Region	Name	Light Value	Value Dark	Opacity	Region	Name	Light	Dark	Region	Name	Light
Primitive	green100	#A7E491	#54958A	100%	Application	primary	green200	green300	Menu	menu_item	text_on
	green200	#73D94F		100%		secondary	green300	green200		menu_indicator--selected	primary
	green300	#015547		100%		primary--highlighted	green100	green100			
Neutral	Gray00	#FFFFFF		100%	Background	surface	gray00	gray800	Card-Home	card-home_title	gray00
	Gray200	#C1C1C1		100%						card-home_subtitle	secondary
	Gray300	#D2D2D2		100%	On_Colors	title__on-surface	secondary	gray00			
	Gray600	#616161		100%		title__on-image	gray00	gray00			
	Gray800	#26262C		100%		text__on-surface	gray600	gray00			
	opacity	#191819		33%		text__on-primary	secondary	secondary			
					text__on-secondary	gray200	primary?				
						text__on-image	gray00	gray00			

Those things are seen here: surface, title__on-surface, secondary, gray00.

Meanwhile, title__on-image, the first one we had seen, keeps the same white color in both cases.

Value Dark	Opacity	Alias/Semantic				Component/Specific			
		Region	Name	Light	Dark	Region	Name	Light	Dark
34958A	100%	Application	primary	green200	green300	Menu	menu_item	text_on-image	text-on-image
	100%		secondary	green300	green200		menu_indicator--selected	primary	secondary
	100%		primary--highlighted	green100	green100				
		Background	surface	gray00	gray800	Card-Home	card-home_title	gray00	gray800
							card-home_subtitle	secondary	primary
		On_Colors	title_on-surface	secondary	gray00				
			title_on-image	gray00	gray00				
	33%		text_on-surface	gray600	gray00				
			text_on-primary	secondary	secondary				
			text_on-secondary	gray200	primary?				
			text_on-image	gray00	gray00				

Now, let's get to what I was asking you, which is what brought up this Dark mode introduction: why had I also isolated a token for the card-home__title? Instead of using, for example, the title_on-image.



Because while this title__on-image, and even this title__on-image does not change (we see that it is still the same white)...

What about this one?

Here we see that it is a sort of dark gray color... well, note that here Chechu is not using the color style. These are inconsistencies that, of course, can happen in any project, right? But clearly, this color is the same as that of the surface... it's the gray800.

OK, but we were saying, here it's gray800, while in the Light mode it's this white.

So we see that this color, the color of this title, behaves differently than the color of the titles on the images used for the generality of the application. It is therefore a particular case. And it is a particular case that only applies to the Home cards, not to anything else, and that's why I made this decision...

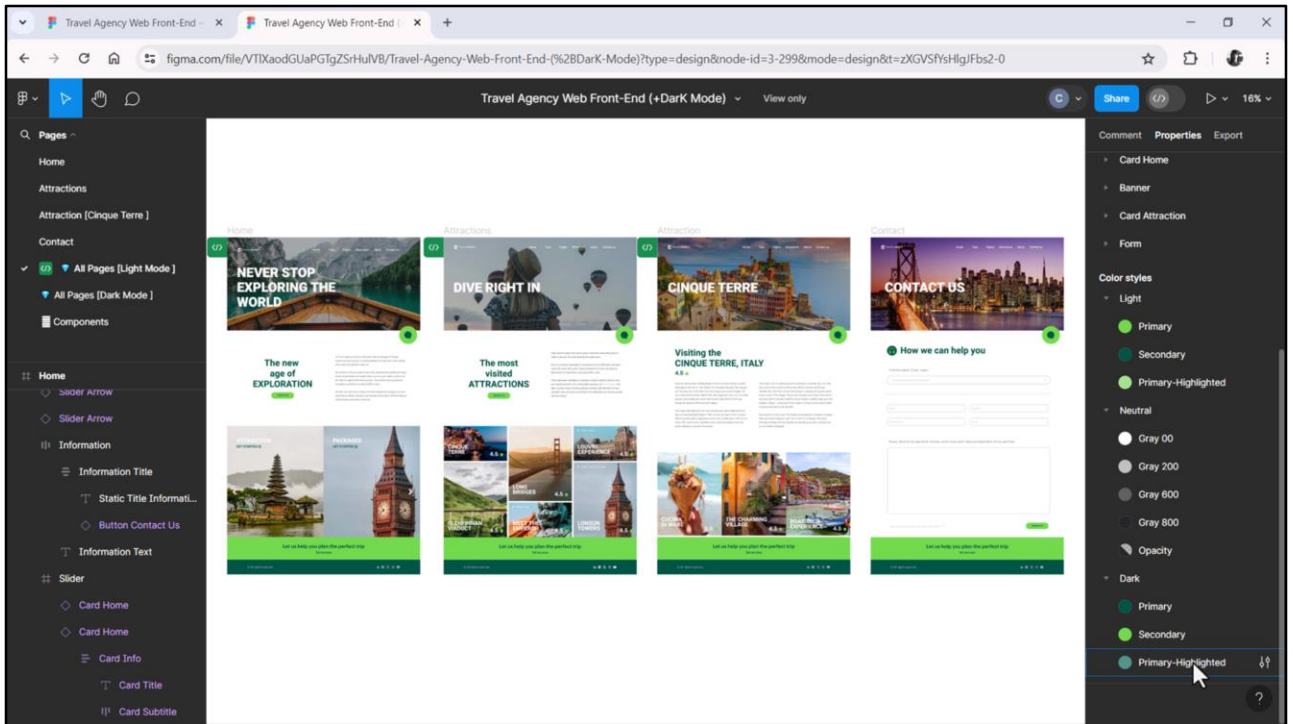
Value Dark	Opacity	Alias/Semantic	Region	Name	Light	Dark	Component/Specific
34958A	100%	Application	primary		green200	green300	Menu
	100%		secondary		green300	green200	menu_item
	100%		primary--highlighted		green100	green100	menu_indicator--selected
		Background	surface		gray00	gray800	Card-Home
	100%						card-home_title
	100%	On_Colors	title__on-surface		secondary	gray00	card-home_subtl
	100%		title__on-image		gray00	gray00	
	33%		text__on-surface		gray600	gray00	
			text__on-primary		secondary	secondary	
			text__on-secondary		gray200	primary?	
			text__on-image		gray00	gray00	

...to define it as a component-specific token.

Primitive/Root					Alias/Semantic				Component/Specific				
Region	Name	Light Value	Value Dark	Opacity	Region	Name	Light	Dark	Region	Name	Light	Dark	
Primitive	green100	#A7E491	#54958A	100%	Application	primary	green200	green300	Menu	menu_item	text_on		
	green200	#73D94F		100%		secondary	green300	green200		menu_indicator--selected	primary		
	green300	#015547		100%		primary--highlighted	green100	green100					
Neutral	Gray00	#FFFFFF		100%	Background	surface	gray00	gray800	Card-Home	card-home__title	gray00		
	Gray200	#C1C1C1		100%						card-home__subtitle	secondary		
	Gray300	#D2D2D2		100%	On_Colors	title__on-surface	secondary	gray00					
	Gray600	#616161		100%		title__on-image	gray00	gray00					
	Gray800	#26262C		100%		text__on-surface	gray600	gray00					
opacity	#191819		33%	text__on-primary	secondary	secondary							
					text__on-secondary	gray200	primary?						
					text__on-image	gray00	gray00						

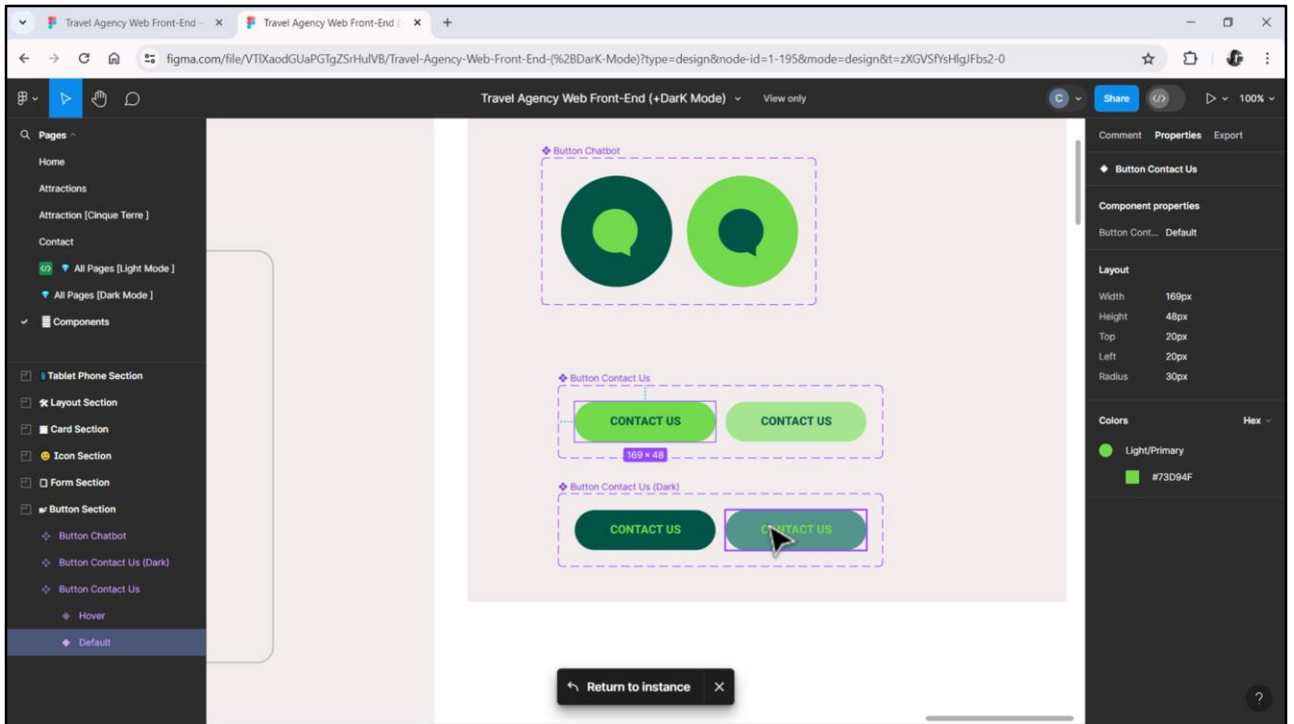
Let's also see what I was saying before, that the primary token is going to be a type of green – green200 – which is the light green, for the Light mode; and the dark green for the Dark mode. And vice versa, they are reversed, for the secondary token.

Here note that the primary--highlighted that the same primary token green100 is using, I called it green100... these do not vary for Light and Dark modes, they will all have the same value for the two modes, except for this first one that I do vary for Light and Dark. And what color does this one correspond to, what color is this?



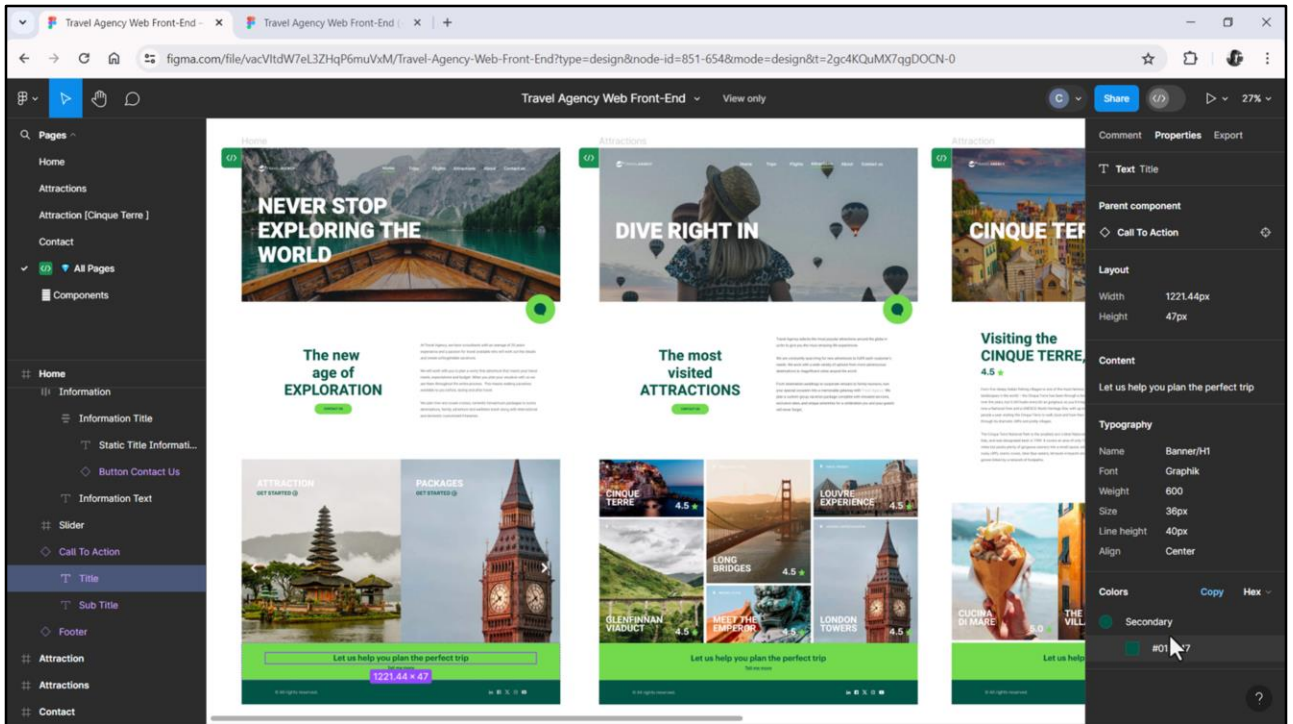
The primary-highlighted one. See that I have this primary-highlighted for the Light mode, and for the Dark mode is this other one, which is lighter than the primary, in both cases.

That was the one that we used, precisely, for the button to...



...let's go to the button to show you... to show you the variations of the button when you hover over it. In the other file we only had this, and in this one we have the two versions: Light and Dark.

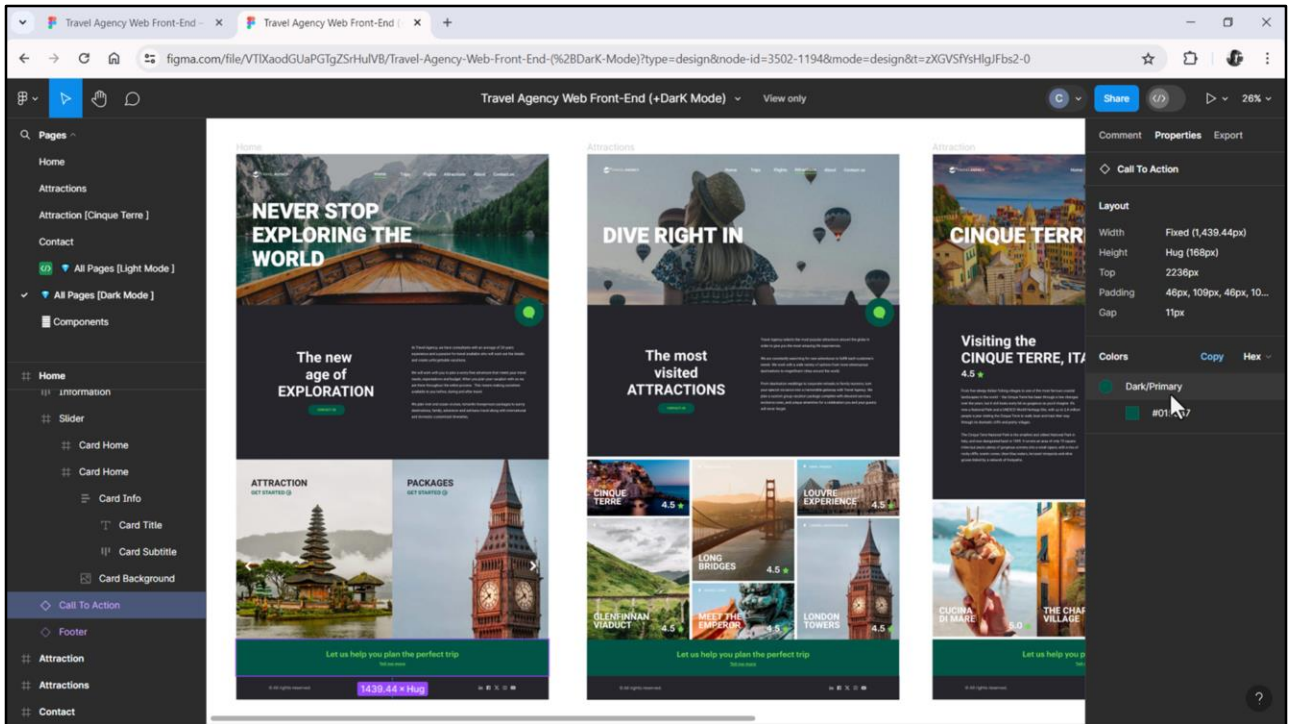
And for the chatbot as well (I had also told you about it in the video where we talked about the images, but there I hadn't presented it yet because I didn't have this file, I didn't want to show you this file that the designer had given me).



To make it easier to compare them, I'll have the two files at the same time. This is the previous one, which has the Light mode only, and this is the one that has both modes. I'm going to select the Dark mode, for an easy comparison.

Well, what should we see? That the tokens we have are enough, to see if we don't have to create other tokens, as it happened with the token that we had associated with the card-home for the title.

So, for example, I want to see what happens with primary as background. For the Light mode, we had defined that with primary, with the green one, then we defined a text_on-primary token, which worked for both the button and the banner. Because the color of what was superimposed on that primary color, that is, text_on-primary, was always the same. In this case, in Light mode, we knew that the primary was this green, and the on-primary corresponded to the secondary one.

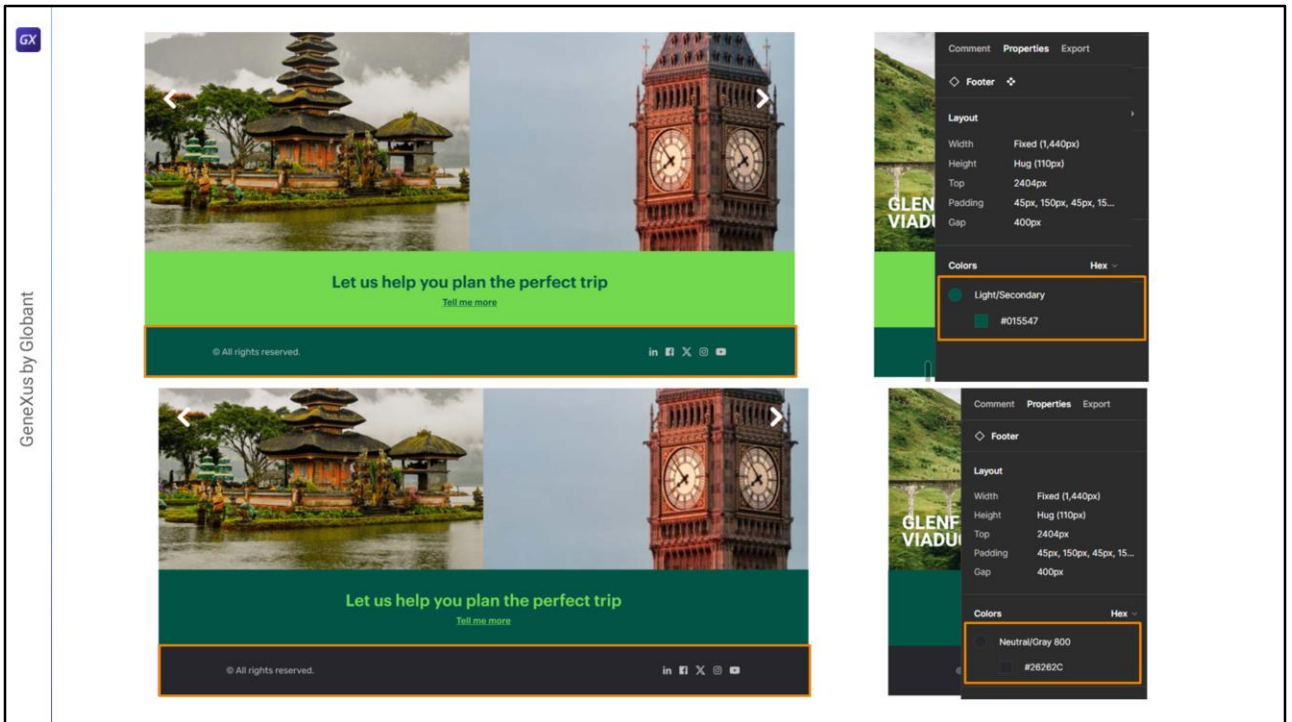


What happens with the Dark mode? Well, we see that they are reversed: what in the other case was primary here is secondary, and vice versa. And that works for us, you see? Because then what do we have to place here?

We know that in this case the primary is this one, and the secondary is the one that in the other case was the primary.

Alias/Semantic					Component/Specific			
Region	Name	Light	Dark	Region	Name	Light	Dark	
Opacity	Application	primary	green200	green300	Menu	menu_item	text_on-image	text-on-image
		secondary	green300	green200		menu_indicator--selected	primary	secondary
		primary--highlighted	green100	green100	Card-Home	card-home_title	gray00	gray800
	Background	surface	gray00	gray800		card-home_subtitle	secondary	primary
On_Colors	title_on-surface	secondary	gray00	Menu				
	title_on-image	gray00	gray00					
	text_on-surface	gray600	gray00					
	text_on-primary	secondary	secondary					
	text_on-secondary	gray200	primary?					
	text_on-image	gray00	gray00					

It sounds like a tongue twister but this is where you can understand why we gave it the same value, when in fact it is not the same. What happens is that this secondary is referring to this secondary token that actually varies between one mode and the other.



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Note that there is an exception to this conversion from primary to secondary and from secondary to primary between Light and Dark modes.

For example, in the chatbot we see that what is primary and secondary is indeed reversed. The same for the button, we had seen, the same for the banner.

But what about the footer? Here that reversion is not being done. The background-color of the footer that is this green for the secondary is not turning into the primary green of the Light mode, that is to say, this light green... if the same rule were followed it would have to be this color. But it is this other one.

So we can clearly see that this is an exception to this rule (which, if followed, should indicate that the secondary here should be the secondary here...) That the secondary here is what? This one. And it's not happening.

What color is it taking on instead? gray800.

Tokens Travel Agency - Google

docs.google.com/spreadsheets/d/1oMvInca8ZASn5_iTG6pcap3yiArNcfvMSgVO068e_/edit#gid=1337893737

GeneXus DL Portal Issues

Tokens Travel Agency

File Edit View Insert Format Data Tools Extensions Help

100% 123 Default... 10 B I A

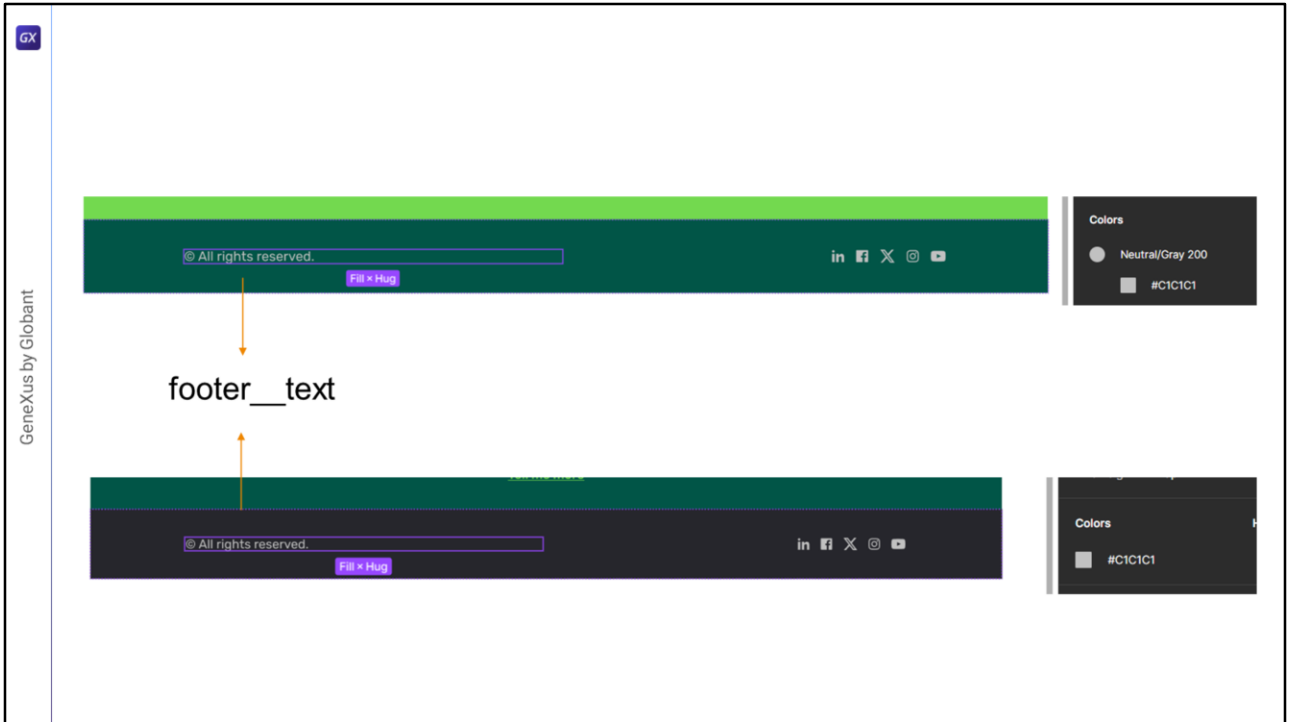
O10 gray800

	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1														
2														
3		if Value	Value Dark	Opacity	Alias/Semantic				Component/Specific					
4		#491	#54958A	100%	Region	Name	Light	Dark	Region	Name	Light	Dark		
5		94F		100%	Application	primary	green200	green300	Menu	menu_item	text_on-image	text-on-image		
6		547		100%		secondary	green300	green200		menu_indicator--selected	primary	secondary		
7						primary--highlighted	green100	green100						
8		FFF		100%	Background	surface	gray00	gray800	Card-Home	card-home_title	gray00	gray800		
9		1C1		100%						card-home_subtitle	secondary	primary		
10		2D2		100%	On_Colors	title_on-surface	secondary	gray00		Footer	footer_background-color	secondary	gray800	
11		161		100%		title_on-image	gray00	gray00						
12		62C		100%										
13		819		33%		text_on-surface	gray600	gray00						
14						text_on-primary	secondary	secondary						
15						text_on-secondary	gray200	primary?						
16						text_on-image	gray00	gray00						
17														
18														
19														
20														
21														
22														

maybe better would be: surface

Text Styles Text Styles + Multiexperience Colors Styles Colors Styles + Dark Mode Color tokens Text Classes

Then I create a special token, footer__background-color, precisely for that exception. It will take the secondary color of the Light mode. And for the Dark mode, it will take this gray800.



And what about the text on that background?

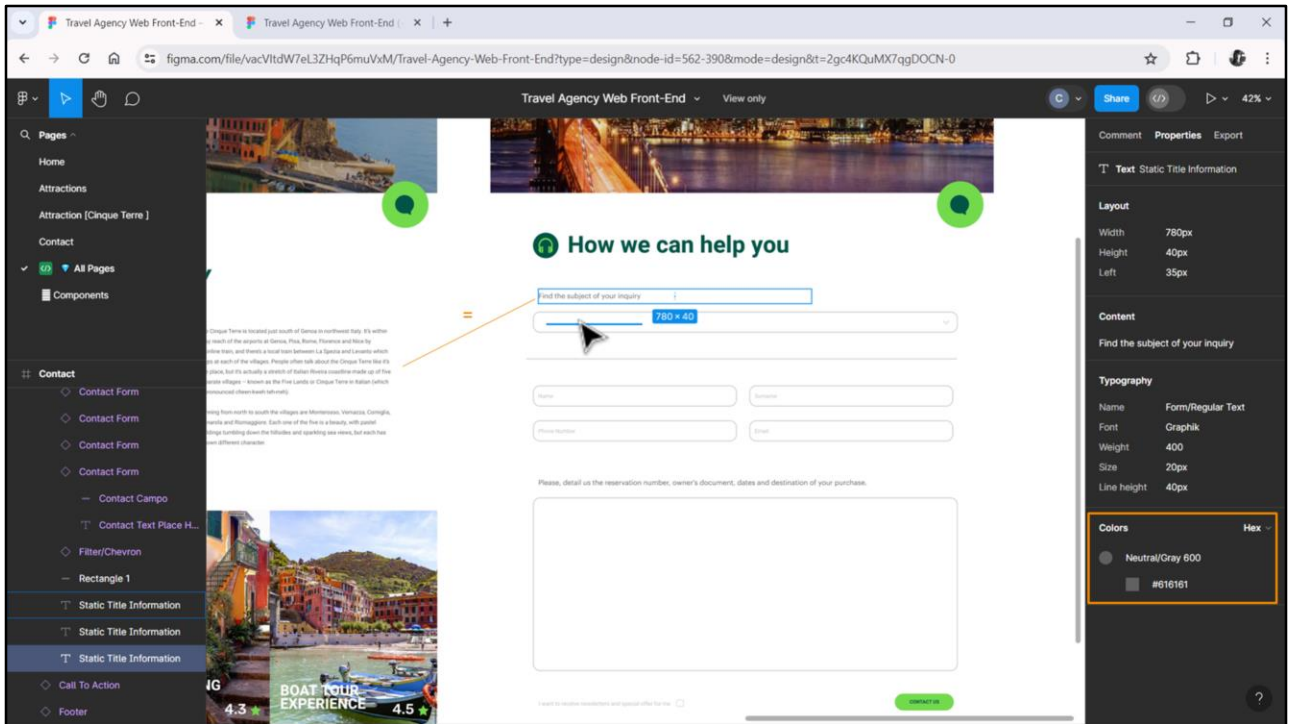
We see that it's this color... if we go to Light mode it's the same one, gray200. Therefore, I add this one as a token, footer__text.

Alias/Semantic			Component/Specific				
Region	Name	Light	Dark	Region	Name	Light	Dark
Application	primary	green200	green300	Menu	menu_item	text_on-image	text-on-image
	secondary	green300	green200		menu_indicator--selected	primary	secondary
	primary--highlighted	green100	green100				
Background	surface	gray00	gray800	Card-Home	card-home_title	gray00	gray800
					card-home_subtitle	secondary	primary
On_Colors	title_on-surface	secondary	gray00	Footer	footer_background-color	secondary	gray800
	title_on-image	gray00	gray00		footer_text	gray200	gray200
	text_on-surface	gray600	gray00				
	text_on-primary	secondary	secondary				
	text_on-secondary	gray200	primary?				
	text_on-image	gray00	gray00				

Because it will not correspond to text__on-secondary, because it will not be, for example, the secondary background for the Dark mode; it will be this other one, it will be this background color. So I need to add a special token.

Text__on-secondary ended up like this... this is something to think about because we are not really using it. At first sight, with this color inversion that we were talking about, where the primary of one becomes the secondary of the other mode and vice versa, one could think that actually a text__on-secondary should be primary in both cases if this rule were followed.

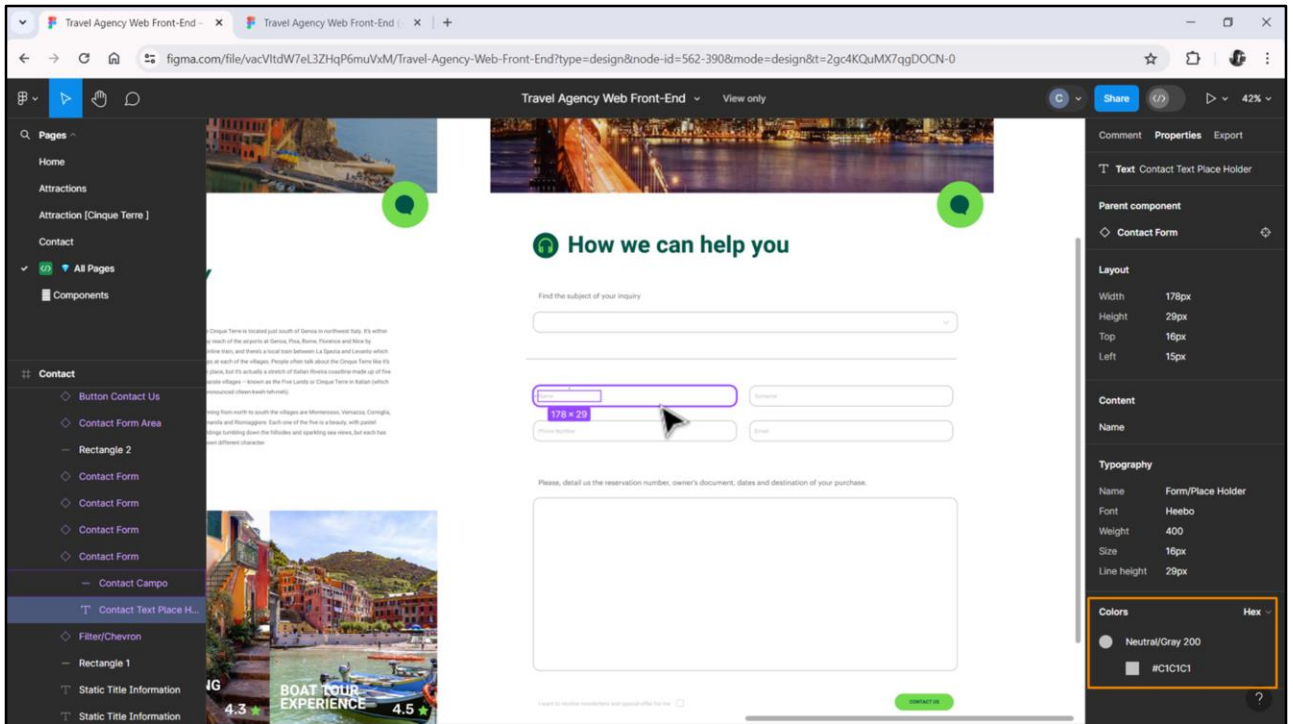
I'm going to leave the two values with a question mark because of what I was saying... at the moment, the only case of secondary as a background is this one, that of the footer. We don't have another case.



To complete the expression of our whole color system, we still have to model only one part of it. Let's look at it here: it has to do with the Contact panel, which is the only panel that has input fields. All the other panels have only output fields.

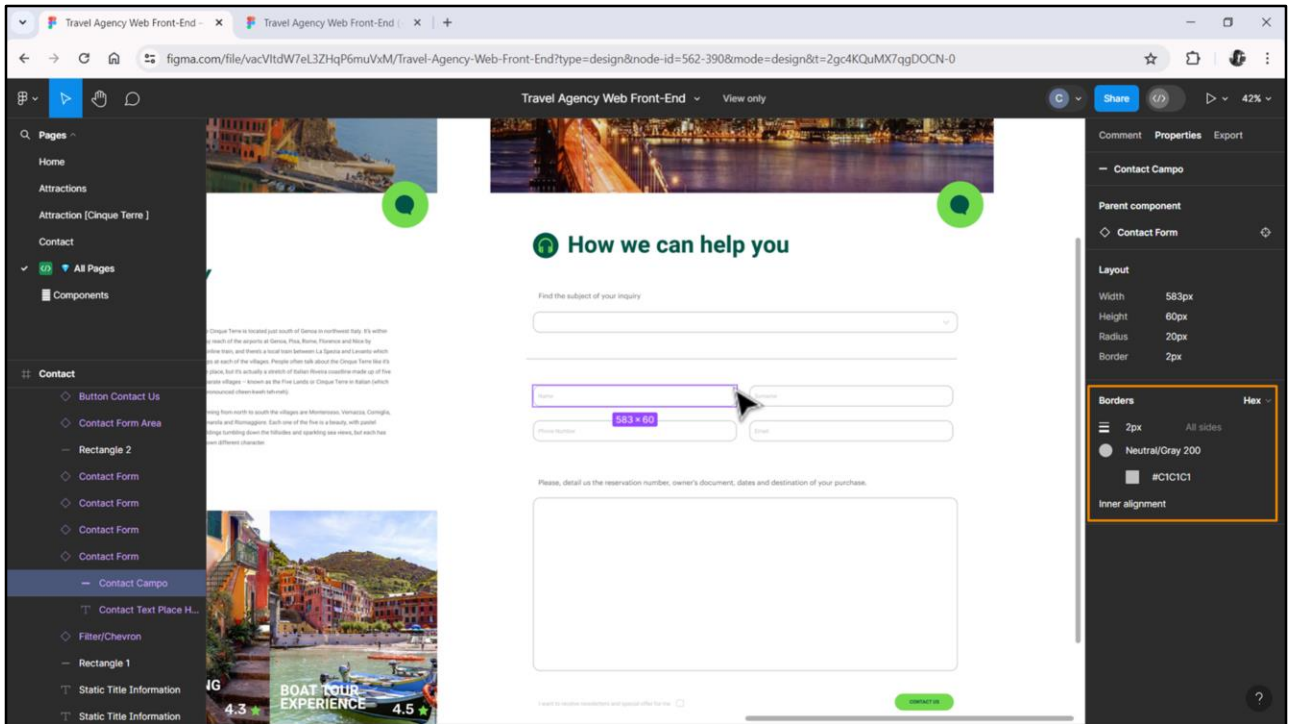
Here the user will have to enter information and press the button.

Note (I'm going to expand it a little more) that this text describing what the user has to enter in the next field takes this color, gray600, which, in this case, is the same as any text on the background surface. So we would set as color that of the same token as this one. There is nothing to specialize there.



However, note what happens with the text that appears inside here, which is a suggestion text, that is, it is not the description but corresponds to indications for the user. Once the user starts typing, they disappear, unlike this one, which is a description that is always displayed.

This is a lighter color, not gray600. It is gray200, and corresponds to a different concept, which explains the color difference.

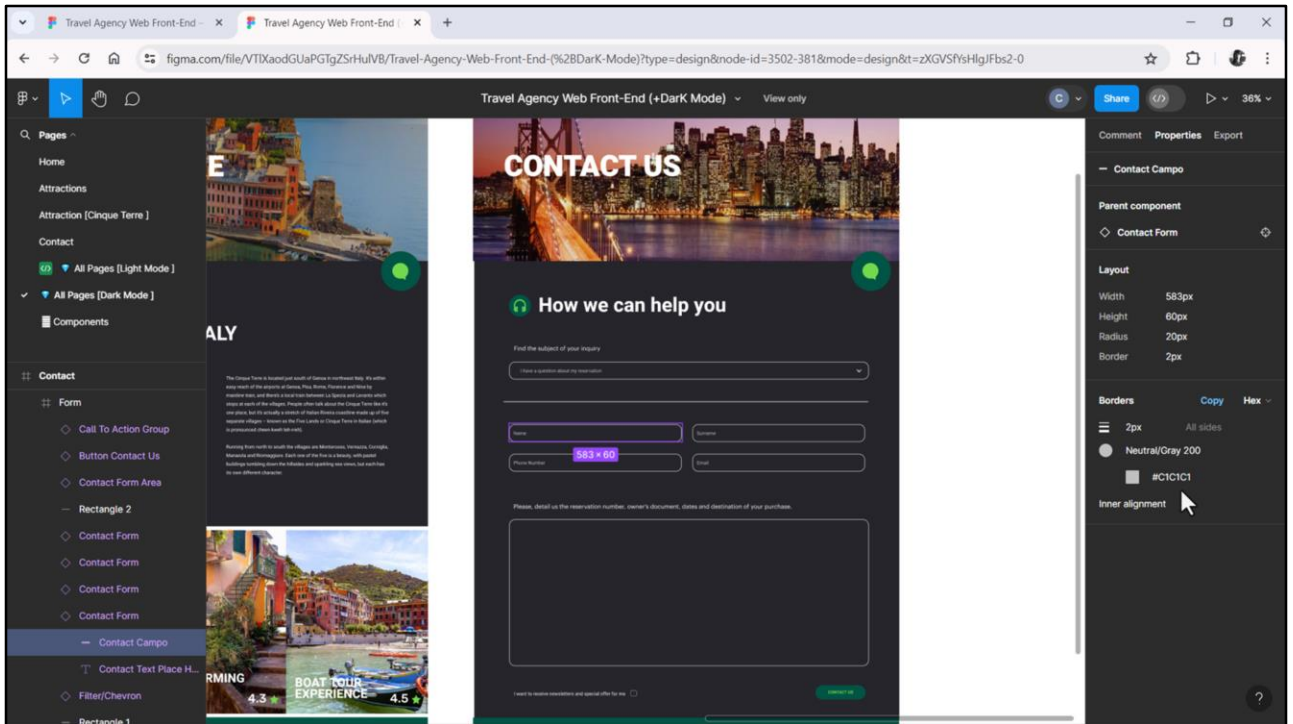


And here is another type of color, that of the borders of these fields. The other fields did not have borders. This one does, and it is gray200 too.

So we still need to model two tokens: one for those borders and another for the text in these cases.

Alias/Semantic	Region	Name	Light	Dark	Component/Specific	Region	Name	Light	Dark
Application	primary		green200	green300	Menu	menu_item	text_on-image	text-on-image	
	secondary		green300	green200		menu_indicator--selected	primary	secondary	
	primary--highlighted		green100	green100					
Background	surface		gray00	gray800	Card-Home	card-home_title	gray00	gray800	
						card-home_subtitle	secondary	primary	
On_Colors	title_on-surface		secondary	gray00	Footer	footer_background-color	secondary	gray800	
	title_on-image		gray00	gray00		footer_text	gray200	gray200	
	text_on-surface		gray600	gray00	Form	form_border-color	gray200	gray200	
	text_on-primary		secondary	secondary		form_text--placeholder	gray200	gray200	
	text_on-secondary		gray200?	primary?					
	text_on-image		gray00	gray00					

And that's why I build two tokens inside a component that I'm going to name form, because it is specific, very specific. I named one border-color and the other one text-placeholder; it is the text that goes inside the placeholder.



See that it will take for the Dark mode, I didn't show it, the same gray200 value. That's for the border, and for the text inside as well.

	C	D	E	F	G	H	I	J	K	L	M	N	O
5	D94F		100%			secondary	green300	green200		menu_indicator--selected	primary	secondary	
6	5547		100%			primary--highlighed	green100	green100		Card-Home	card-home_title	gray00	gray800
7										card-home_subtitle	secondary	primary	
8	FFFF		100%		Background	surface	gray00	gray800		Footer	footer_background-color	secondary	gray800
9	C1C1		100%							footer_text	gray200	gray200	
10	D2D2		100%		On_Colors	title_on-surface	secondary	gray00		Form	form_border-color	gray200	gray200
11	6161		100%			title_on-image	gray00	gray00		form_text-placeholder	gray200	gray200	
12	262C		100%			text_on-surface	gray600	gray00		form_text	text_on-surface	text_on-surface	
13	1819		33%			text_on-primary	secondary	secondary		Card-Attractions	card-attraction_title	title-on-image	title-on-image
14						text_on-secondary	gray200?	primary?		card-attraction_text	text-on-image	text-on-image	
15						text_on-image	gray00	gray00		Hero	hero_title	title-on-image	title-on-image
16										Banner	banner_background-color	primary	primary
17										banner_title	secondary	secondary	
18										banner_text	secondary	secondary	
19													
20													
21													
22													
23													
24													
25													
26													

With this, we would have the minimum necessary expression of the application's color system.

As I said before, for a system as small as this, we could also create tokens for these other components, which makes it much easier to understand.

For example, we have clearly identified the gray title that goes on the Hero image, the color, so if we want to change that color, which was using the same title__on-image token, we can change it here directly and separate the title__on-image token from the hero__title; that is, we can start to make them independent. So that, for example, this color can be different from this color here, from this color here, and from this one here.

Well, the same for the others. For the banner, for example, which was not necessary, and for the attraction cards, which were not necessary either.

I marked here everything that in principle would not really be necessary.

And here what is only in these two rows... the ones that repeat exactly the same value. Later we'll see why this might be of interest to us.

Well, we still have to see how to take all this to GeneXus, but as this video is already very long, I'll stop here and continue in the next one.

GX

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